	and an individual	· ·		,e <sup>©</sup>		#ton/D		rie D	Aug.									x <sup>0</sup>	ognation to Jaco	, received	mer a	at se Actal Insi	aket	/å	de		se gades
Steady of the Park	Youtsuler feet	DEE Experience	DCC LEDREY IL	OCC Biosandy	OCC FIRED	ERIUS POSTOGE ERIUS	Ibrary L.	Rechtore V	Spirit Spragger	Order	Size and the trip	Spicogen state	Safer lands - Safertaffact	Stowart	kar kar	get Ethnicity	Dorot	Juliano cellula	du franchiste po	E Experiment rate	Jorge State Control of Superior	Marked Defended Burgled County	Probagge Intrib	Brary section.	Reads used	OCC SPOT SC	Des House of the Printer of the Prin
GM06990 HenG2		ENCSR000EMQ ENCSR000ENP	ENCLB435ZZZ ENCLB480ZZZ	ENCBS057ENC ENCBS114ENC	ENCFF983CTQ /	AG5636 LN120	7 DS7764		Hematopoietic Lymphoid	Blood	Lines	Immortalized Cancer	Mesoderm Lymphoblastoid Endoderm hepatocellular carcinoma	Adult	41Y F				Biosample protocol	Experiment protocol  Experiment protocol	Sucrose Sucrose	50		9-02-23	142681590	0.679	83639 82918 89748 89235
hTH1		ENCSR000EQC	ENCLB591ZZZ	ENCBS345AAA	ENCFF575KOF /	AG5634 LN122	22 DS7840		Hematopoietic T-cell Genitourinary	Blood Utenis	Cancer Primary Cancer	Primary	Mesoderm T1 helper Entoderm Cervical carninoma	Adult Child Adult Adult	25Y? F	?	Wilson01		Biosample protocol	Experiment protocol	Sucrose 6 new Sucrose 4	534.9		7-06-06	149158633	0.647	94360 93665 59098 59024
CACO2		ENCSR000EMI	ENCLB422ZZZ	ENCBS391ENC	ENCFF977BRD /	G4218 LN126	9 DS8235	DS8416	Digestive Digestive	Colon	Cancer	Cancer	Endoderm Colorectal adenocarcinoma	Adult	31Y F 72Y N					Experiment protocol	Sucrose 8 Sucrose 6	1	200	7-09-05	22760059	0.719	29894 29724 40048 39746
SKNSH		ENCSR000EPZ	ENCLB585ZZZ	ENCBS799ICU	ENCFF528WUL /	G4216 LN131	10 DS8476	DS8482	Nervous Nervous	Brain Brain	Cancer	Cancer		Child	4Y F			'n		Experiment protocol	Sucrose 6		200	7-11-28	27541549 155458024		51959 51575
HMEC		ENCSR000ENV	ENCLB493ZZZ	ENCBS090ENC	ENCFF026VBN /	G4215 LN137	76 DS8680	DS13921	Nervous Epithelial	Mammary	Primary	Primary	Ectoderm Mammary epithelial	Adult	50Y F	Cauc			Biosample protocol Biosample protocol	Experiment protocol	new Sucrose 6	1.2	200	8-02-04	30855330	0.4415	71383 70998
GM12878 MCF7		ENCSR000EP.I	FNCI R554777	FNCRS241AAA	ENCFF161BIS / ENCFF988IHF /	G4213 I N161	15 DS9445	DS12619	Hematopoletic Lymphoid Integumentary	Blood Mammary	Lines Cancer	Immortalized Cancer	Ectoderm Breast carcinoma	Adult Adult	U 69Y F	Cauc		)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	new Sucrose 2 new Sucrose 1			8-07-25 8-07-29	29049982 22366961		30405 30327 51761 51651
K562 K562		ENCSR000EPC ENCSR000EPC	ENCLB539ZZZ ENCLB540ZZZ	ENCBS025CUE ENCBS039ENC	ENCFF352LQJ / ENCFF854TXU /	NG5632 LN168 NG5631 LN169	34 DS9764 31 DS9767	DS9767 DS9764	Hematopoietic Erythroid Hematopoietic Erythroid	Blood Blood	Cancer	Cancer	Mesoderm Myeloid Mesoderm Myeloid	Adult Adult	53Y F			)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	PE	10		B-09-24 B-09-29	20647269 115837866		36356 36248 120976 120549
PANC1					ENCFF546YHJ / ENCFF145NZT /				Digestive Digestive	Colon Colon	Cancer	Cancer		Adult	56Y N			)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	new Sucrose 1			B-11-04 B-11-19	22032223 20335309		32945 32800 34302 34196
HeLaS3		ENCSR000ENO	ENCLB478ZZZ	ENCBS432ENC	ENCFF782HVG / ENCFF199NHK /	NG5630 LN178	9 DS10011		Genitourinary Connective	Uterus	Cancer	Cancer	Ectoderm adherent human cervical adenocarcinoma  Mesoderm Skin fibroblasts	Adult Adult Neonatal	31Y F				Biosample protocol	Experiment protocol	new Sucrose 4	3 44	2000	B-12-06 B-12-05	25866846 27033500	0.5561	53306 53150 79151 79083
HUVEC	Stromai A Vascular / endothelial	ENCSR000EOQ	ENCLB533ZZZ	ENCBS112ENC	ENCFF011FHJ /	AG4209 LN181	12 DS10060	DS13475	Cardiovascular Vascular	Umbilical	Primary Primary	Primary	Mesoderm umbilical vein endothelial	Neonatal	N.	6 Afr-Am	1	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	Sucrose 6	24.6	200	B-12-10	383483914	0.4182	175498 174822
BJ HESC		ENCSR000EMU	ENCLB442ZZZ	ENCBS111ENC	ENCFF602RAY	AG4207 LN183	35 DS10167		Connective Embryonic	Skin Germ	Lines		Mesoderm Skin fibroblasts Primitive H1-Embryonic stem	Neonatal Embryonia	) h	4	1	)	Biosample protocol	Experiment protocol  Experiment protocol	new Sucrose 6 Sucrose 6	13.1	200	B-12-15 B-01-21	24336037 20475547	0.7305 0.3782	38270 38181
SAEC SAEC	Cancer / epithelial				ENCFF265OJW /				Respiratory Respiratory	Lung	Primary Primary	Primary Primary	Endoderm Small airway epithelial Endoderm Small airway epithelial	Adult Adult	28Y N	f Cauc	1	1		Experiment protocol	PE microcon 8 PE microcon 8	0 6.8		9-03-20 9-03-20	22265561 221633830		66215 66145 271075 270648
HRE HRE					ENCFF597DWR /				Renal Renal	Kidney Kidney	Primary Primary	Primary Primary	Mesoderm renal epithelial (normal)  Mesoderm renal epithelial (normal)	Adult Adult	L			)		Experiment protocol	PE microcon 8 PE microcon 8	16.8		9-04-02 9-04-02	24137647 22691625		67607 67513 71588 71478
HRCE HRCE	Danel / 22222	ENCSR000EOK	ENCLB521ZZZ	ENCBS286JKJ	ENCFF650CGG /	G4202 LN195	58 DS10662	DS10666	Renal	Kidney	Primary Primary	Primary Primary	Mesoderm renal cortical epithelial (normal)	Child Child	12Y N	f Cauc			Biosample protocol	Experiment protocol	PE microcon 6	42.5	200	9-04-03	22067570 215412388		71425 71332
GM12878	- Curicus	ENCSR000EMT	ENCLB440ZZZ	ENCBS110ENC	ENCFF170ICJ /	G4200 LN196	0 DS10671	DS9432	Hematopoietic Lymphoid	Blood	Lines	Immortalized	Mesoderm Lymphoblastoid	Adult	U F	Cauc			Biosample protocol	Experiment protocol	PE microcon 8	3 54.2 3 <2ng	200	9-04-06	22764239		36294 36105
Jurkat hTH17		ENCSR000EQF	ENCLB597ZZZ	ENCBS364AAA	ENCFF894CLW // ENCFF324EIA //	G4198 LN204	4 DS11039		Hematopoietic T-cell Hematopoietic T-cell	Blood Blood	Cancer Primary	Primary	Mesoderm T cell leukemia Mesoderm Th17 cells	Child Adult	25Y? F	Cauc	Wilson02	1	Biosample protocol	Experiment protocol  Experiment protocol		3.9	200	9-04-10 9-04-14	30018744 208484267	0.3505	57351 57216 73941 73856
CD34 NHEK		ENCSR000EPQ	ENCLB567ZZZ	ENCBS591ENC	ENCFF095DSQ /	G4197 LN218	38 DS11474	DS11476	Hematopoietic Progenitor Integumentary	Blood Skin	Primary Primary	Stem Cells Primary	Mesoderm CD34 + Endoderm Normal Epidermal Keratinocytes	Adult Adult	36Y M	f Hisp Cauc	RO 01508	1	Biosample protocol		PE-I microcon 1:	20 2.4	200	9-06-03 9-07-08	24261720 23840039		57163 57087 51606 51498
NHEK HConF		ENCSR000ENK	ENCLB470ZZZ	ENCBS369GTG	ENCFF870JPG // ENCFF506EGS //	G4195 LN227	72 DS11637	DS11642	Integumentary Connective	Skin Eye	Primary Primary	Primary Primary	Mesoderm Conjunctival Fibroblasts	Fetal	45Y F 2nd Trimester L	Cauc			Biosample protocol Biosample protocol	Experiment protocol	PE microon 1: PE minElute 1:	20 2.4		9-07-15 9-07-24	32221880 39226634	0.304	56943 56795 92678 92599
HConF CD34					ENCFF786AVT /		75 DS11642	DS11637	Connective Hematopoietic Progenitor	Eye Eye Blood	Primary Primary	Primary	Mesoderm Conjunctival Fibroblasts	Fetal	2nd Trimester L	I Cauc	RO 01527		Biosample protocol	Experiment protocol  Experiment protocol  Experiment protocol	PE minElute 1:	20 39.6	200	9-07-24	32140946 27460031	0.515	81786 81706 63633 63537
HL60		ENCSR000ENU	ENCLB490ZZZ	ENCBS482VCU	ENCFF210NFY A	G4193 LN230	DS11733	DS11809	Hematopoletic Myeloid Connective	Mesoderm	Cancer		Mesoderm Promyelocyticleukemia Mesoderm Ginglival Fibroblasts	Adult Adult	36Y F	Cauc	1001027			Experiment protocol		4.5		9-08-05	30215480 22293070	0.6042	56158 55907 63915 63851
HGF HGF		ENCSR000ENS	ENCLB487ZZZ	ENCBS310AAA	ENCFF163DTU / ENCFF174SCI /	G4191 LN230	07 DS11752	DS11738	Connective Connective	Gum	Primary Primary Lines	Primary	Mesoderm Gingival Fibroblasts  Mesoderm Gingival Fibroblasts  Mesoderm IMR90	Adult		f Cauc	1			Experiment protocol		9.8	200	9-08-05 9-08-05 9-08-06	22293070 351870884 22909771	0.4918	63915 63851 200730 200524 55818 55761
IMR90 IMR90		ENCSR477RTP	ENCLB675EPB	ENCBS048TNH	ENCFF314WLU /	G9159 LN230	9 DS11764	DS11759,D	Connective Connective	Lung	Lines	Immortalized	Mesoderm IMR90	Fetal Fetal	16W F		0	)	Biosample protocol Biosample protocol	Experiment protocol		20 12.7 20 12.2	200	9-08-06	21864385	0.5125	53031 52991
HL60 H7_hESC_T14		ENCSR000EMY	ENCLB447ZZZ	ENCBS532SEX	ENCFF425CLS // ENCFF575JJO //	AG4189 LN232	29 DS11814	DS12147	Hematopoietic Myeloid Cardiovascular Cardiac Muscle	Mesoderm Heart	Cancer Lines	Cancer	Mesoderm Promyelocyticleukemia Mesoderm H7 embryonic stem differentiation day 14	Adult Embryonia	36Y F	Cauc		)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	PE microon PE minElute 1:	5.6 20 2.2		9-08-07 9-08-07	31547522 28331633		67653 67400 53849 53784
fBrain fBrain	Neural	ENCSR649KRR	ENCLERS33XALL	ENCRS640AF7	ENCFF774WTD /	G9157 I N234	7 DS11877	DS11872	Nervous Nervous	Brain Brain	Primary Primary	Primary	Ectoderm Brain	Fetal Fetal	122D N	4	H22510 1	1	Biosample protocol	Experiment protocol	PE minElute 1	00 11.8		9-08-14	198183451 30730142		249990 249372 98852 98656
hESCT0 NHDF Neo	Primitive / embryonic	ENCSR000EMZ	ENCLB449ZZZ	ENCBS293AAA	ENCFF149WHX /	G4188 LN236	55 DS11909	DS13133	Embryonic	Germ Skin	Lines	ESC	Primitive H7 embryonic stem  Mesoderm Dermal Fibroblasts	Embryonia	neonatal N	f Cauc	1122310		Biosample protocol	Experiment protocol	PE minElute 8	) 14 ) 8.2	200	9-08-19	240791918 30506435	0.6453	315568 314868 83722 83634
NHDF_Neo		ENCSR000EPP	ENCLB566ZZZ	ENCBS065ENC	ENCFF590ISK /	AG4186 LN236	8 DS11923	DS11918	Connective	Skin	Primary	Primary	Mesoderm Dermal Fibroblasts	Neonatal	neonatal M	f Cauc	1	,	Biosample protocol	Experiment protocol	PE minElute 8	4.8	200	9-08-19	319917804	0.6965	270916 270537
SkMC H7_hESC_T5	Stromal A	ENCSR000EMW	ENCLB444ZZZ	ENCBS430FQD	ENCFF159YXI / ENCFF358BDI /	NG4183 LN237	75 DS11953	DS15665	Musculoskeletal Skeletal Muscle Cardiovascular Cardiac Muscle	Heart	Lines Lines	ESC	Mesoderm H7 embryonic stem differentiation day 5	Fetal Embryonia	. F	f Cauc	1		Biosample protocol	Experiment protocol	PE minElute 6	20 19.9 0 8.7	200	9-08-21 9-08-24	32137120 27961281	0.7257 0.3867	61948 61860
NHBE_RA NHBE_RA					ENCFF996LLH /				Epithelial Epithelial	Lung	Primary Primary	Primary Primary	Endoderm Normal Human Bronchial Epithelial Cells w/ RA Endoderm Normal Human Bronchial Epithelial Cells w/ RA	Adult Adult	38Y F	Cauc		)		Experiment protocol	PE minElute 1: PE minElute 1:	20 10.9		9-08-25 9-08-25	28214312 29310510	0.3478 0.3457	61290 61225 57405 57319
PrEC PrEC					ENCFF939VCZ // ENCFF329UDK //				Genitourinary Genitourinary	Prostate Prostate	Primary Primary	Primary Primary	Endoderm Human Prostate Epithelial Cells Endoderm Human Prostate Epithelial Cells	Adult Adult	N.	4		1		Experiment protocol	PE minElute 1: PE minElute 1:	20 6.7 20 4.4		9-08-27 9-08-27	33484497 32059642	0.3156	72479 72405 73789 73727
H7_hESC_T14			ENCLB448ZZZ	ENCBS294AAA	ENCFF936NEG A	G4178 LN242		DS11814	Cardiovascular Cardiac Muscle	Heart	Lines Primary	ESC Primary		Embryonia	12W A		1		Biosample protocol	Experiment protocol	PE minElute 1:	20 10.3	200	9-09-02 9-09-04	26153486 28491658	0.3755	52350 52293 66092 66024
AG04450 CD34			ENCLB405ZZZ	ENCBS004ENC	ENCFF889QFF // ENCFF391TWO //	G4176 LN248	31 DS12270	DS12255	Connective	Lung	Primary	Primary	Mesoderm Lung fibroblast	Fetal		4	RO 01535		Biosample protocol	Experiment protocol		20 6		9-09-04	22261304		60773 60717
AG09319	Myelold / erythrold		ENCLB408ZZZ	ENCBS037NAC	ENCFF898JHA A	G4175 LN248	35 DS12286	DS12291	Connective Progentor	Blood Gum	Primary Primary			Adult Adult	23Y F 24Y F	Cauc	RU 01535 (	) 1	Biosample protocol	Experiment protocol	PE minElute 1:	20 7.3		9-09-05	211609789 21157068	0.5919	196198 195691 66584 66507
AG09319 AG04449		ENCSR000ELX	ENCLB402ZZZ	ENCBS003ENC	ENCFF821HNG /	G4173 LN248	38 DS12319	DS12329	Connective Connective	Skin	Primary Primary	Primary Primary		Adult Fetal	24Y F	Cauc 4	1		Biosample protocol  Biosample protocol	Experiment protocol	PE minElute 1	20 8 50 3.7		9-09-05 9-09-09	19072935 22242548		61805 61746 58238 58183
AG04449 CD34		ENCSR122VUW		ENCBS238NAP	ENCFF300MFZ // ENCFF711BFK //	G9155 LN249	1 DS12336		Connective Hematopoletic Progenitor	Skin Blood	Primary Primary	Primary Stem Cells		Fetal Adult	12W N	4		)	Biosample protocol Biosample protocol	Experiment protocol		3.4 3 8.6	200	9-09-09	24531410 29320853	0.4195 0.4263	56684 56629 57354 57265
CD34 AG09309	Stromal A				ENCFF122ZHJ /				Hematopoietic Progenitor	Blood Skin	Primary Primary	Stem Cells Primary	Mesoderm CD 34+ Hematopoietic progenitor cells Mesoderm Toe skin filmblast	Adult	27Y F	Hisp	RO 01536	)	Biosample protocol	Experiment protocol	PE minElute 8	0 4.8 50 18.5	200	9.09.14	21743805 25621204	0.4263	55119 55037 84836 84756
AG09309 AG10803	Stromal A	ENCSR000ELZ	ENCLB407ZZZ	ENCBS035TPY	ENCFF150TZZ /	AG4170 LN249	95 DS12357	DS12352	Connective Connective	Skin Skin	Primary Primary	Primary		Adult Adult	21Y F	Cauc					PE minElute 1	0 11.6 0 6.1	200	9-09-14	26161546 221146364		77850 77785 240157 239892
AG10803 CMK	ocomar D	ENCSR000EMB	ENCLB411ZZZ	ENCBS408ENC	ENCFF685NVQ /	G4168 LN250	00 DS12384	DS12374	Connective	Skin	Primary Cancer	Primary Cancer	Mesoderm Abdominal skin Fibroblast	Adult	22Y N	f Cauc		1	Biosample protocol	Experiment protocol  Experiment protocol	PE minElute 1	50 6	200	9-09-15	25074232	0.7192	80752 80697 52906 52804
GM12864		ENCSR000EMR	ENCLB437ZZZ	ENCBS208AAA	ENCFF284XMQ /	G4166 LN252	27 DS12431		Hematopoietic Lymphoid	Blood	Lines	Immortalized	Mesoderm Lymphoblastoid	Neonatal Adult	U N	f Cauc	1	1	Biosample protocol Biosample protocol	Experiment protocol	PE minElute 1:	20 19.2	200	9-09-24	106375888	0.861	47605 47510
GM12865 GM12865	Lymphoid	ENCSR000EMS	ENCLB439ZZZ	ENCBS073XSW	ENCFF620NKS // ENCFF644LSI //	NG4164 LN252	29 DS12442	DS12436	Hematopoietic Lymphoid Hematopoietic Lymphoid	Blood Blood	Lines Lines	Immortalized	Mesoderm Lymphoblastoid	Adult Adult	U F	Cauc	0	)	Biosample protocol Biosample protocol		PE minElute 1	20 5.6 50 20.7	200	9-09-25 9-09-25	260976809 32098397	0.5331	161411 161079 73701 73550
HCPEpiC HCPEpiC	Stromal B	ENCSR000ENL	ENCLB473ZZZ	ENCBS559KYO	ENCFF214FPC // ENCFF308WRX //	G4162 LN253	32 DS12457	DS12447	Epithelial Epithelial	Eye Eye	Primary Primary	Primary	Ectoderm Choroid Plexus Epithelial	Fetal Fetal	2nd Trimester L 2nd Trimester L		1		Biosample protocol Biosample protocol		PE minElute 1		200	9-09-28 9-09-28	236381913 26688077	0.6105	282544 282010 82174 82087
HNPCEpiC HNPCEpiC		ENCSR000EOF	ENCLB512ZZZ	ENCBS406ENC	ENCFF668KSI / ENCFF982WYM /	NG4161 LN253	34 DS12467	DS12471	Epithelial Epithelial	Eye Eye	Primary Primary	Primary Primary	Ectoderm Non-Pigment Ciliary Epithelial Ectoderm Non-Pigment Ciliary Epithelial	Fetal Fetal	2nd Trimester L 2nd Trimester L	1			Biosample protocol	Experiment protocol		50 14.5	200	9-09-29 9-09-29	20604925 21767577	0.6252	70220 70156 59742 59685
HCF HCF		ENCSR000ENH	ENCLB464ZZZ	ENCBS756HNZ	ENCFF996CVV / ENCFF511VUS /	G4159 LN254	0 DS12491	DS12501	Connective Connective	Heart	Primary Primary	Primary Primary	Mesoderm Cardiac Fibroblasts Mesoderm Cardiac Fibroblasts	Fetal	2nd Trimester L 2nd Trimester L	1			Biosample protocol	Experiment protocol	PE minElute 1:	20 14.3	200	9-09-30	27918106 226214230	0.6044	80246 80178 230140 229827
fAdrenal	And the second	ENCSR060BFU	ENCLB551YSO	ENCBS520GRO	ENCFF481XYV /	NG9153 LN255	52 DS12528		Endocrine	Adrenal Gland	Primary Primary	Primary	Mesoderm Adrenal	Fetal	96D M		H22662		Biosample protocol	Experiment protocol	PE minElute 1:	20 5.8 20 9.6	200	9-10-02 9-10-02	32241832	0.4824	71683 71539
NB4	Cardiac	ENCSR000EPL	ENCLB557ZZZ	ENCBS032SIL	ENCFF289XIG // ENCFF336HBJ //	G4157 LN255	55 DS12538		Cardiovascular Cardiac Hematopoletic Myeloid	Heart Blood	Cancer	Primary Cancer		Fetal Adult	96D L 23Y F		H22662 1	)	Biosample protocol	Experiment protocol	PE minElute 8	0 56.2	200	9-10-02	256314170 30046931	0.5005	224464 223788 69673 69561
NB4 HRPEpiC	Myeloid / erythroid	ENCSR000EON	ENCLB527ZZZ	ENCBS893GDP	ENCFF940FXR /	G4155 LN255	59 DS12568	DS12583	Hematopoietic Myeloid Epithelial	Blood Eye	Cancer Primary	Cancer Primary	Mesoderm Acute Promyelocytic Leukemia cell line Ectoderm Retinal Pigment Epithelial	Adult Fetal	23Y F 2nd Trimester L		1	1	Biosample protocol	Experiment protocol  Experiment protocol		0 35 20 23	200	9-10-02 9-10-05	292684299 24923998	0.6185	181410 181121 77537 77463
HRPEpiC HCM					ENCFF83NRG / ENCFF853CZA /				Epithelial Cardiovascular Cardiac Muscle	Eye Heart	Primary Primary	Primary Primary	Ectoderm Retinal Pigment Epithelial Mesoderm Cardiomyocytes	Fetal Fetal	2nd Trimester L 2nd Trimester L			)		Experiment protocol	PE minElute 1: PE minElute 1:	20 19.2 50 21.6		9-10-05 9-10-06	27135564 27258654		89282 89196 76455 76382
HCM MCF7		ENCSR000ENJ	ENCLB469ZZZ	ENCBS072ENC	ENCFF975KHQ /	G4152 LN256	55 DS12599	DS12589	Cardiovascular Cardiac Muscle Integumentary	Heart Mammary	Primary Cancer	Primary Cancer	Mesoderm Cardiomyocytes	Fetal Adult	2nd Trimester L				Biosample protocol		PE minElute 1	50 22.6 50 53.6	200	9-10-06 9-10-08	220331341 47888072	0.7372	
fKidney fLung		ENCSR1060KX	ENCLB557HQV	ENCBS585ZLO	ENCFF226XRC / ENCFF579VYL /	G9151 LN257	74 DS12635		Renal Pernistros	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney	Fetal Fetal	122D L	J.	H22676		Biosample protocol	Experiment protocol  Experiment protocol	PE minElute 1:	20 10.8	200	9-10-09 9-10-09	25860256 24258228	0.4939	53649 53516 62178 62086
Jurkat		ENCSR000EOS	ENCLB538ZZZ	ENCBS407ENC	ENCFF201ECY /	G4150 LN257	78 DS12659		Respiratory Hematopoietic T-cell	Blood	Cancer	Cancer	Mesoderm T cell leukemia	Child	14V 8		PIZZ0/0		Biosample protocol	Experiment protocol	PE minElute 1:	20 12.7	200	9-10-15	61699552	0.5032	97487 97364
HAEPIC HAEPIC HIPEPIC			ENCLB458ZZZ	ENCBS605VPK	ENCFF888IWI	G4148 LN258	31 DS12673	DS12663	Epithelial Epithelial	Amion Amion	Primary Primary	Primary Primary	Primitive Amniotic Epithelial Primitive Amniotic Epithelial	Fetal Fetal	18W L				Biosamole omtocol	Experiment protocol	PF minFlute 1	ru 7.9 20 11.2	200	9-10-16 9-10-16	265284612 25750975	0.7343	281679 281326 83629 83569
HIPEpiC	Stromal B		ENCLB489ZZZ	ENCBS430MWV	ENCFF094NXU / W ENCFF710TOA /	G4146 LN258		DS12684	Epithelial Epithelial	Eye Eye	Primary Primary	Primary Primary	Ectoderm Iris Pigment Epithelial Ectoderm Iris Pigment Epithelial	Fetal Fetal	2nd Trimester L 2nd Trimester L		1	)	Biosample protocol Biosample protocol	Experiment protocol		9.5 9.5 9.8		9-10-16 9-10-16	206359087 33844905	0.616 0.5668	271863 271358 99626 99538
HEEpiC HEEpiC	Cancer / epithelial Cancer / epithelial	ENCSR000ENN ENCSR000ENN	ENCLB476ZZZ ENCLB477ZZ7	ENCBS405ENC ENCBS515HSH	ENCFF178DMH /	G4145 LN261	13 DS12763 14 DS12768	DS12768 DS12763	Epithelial Epithelial	Esophagus Esophagus	Primary Primary	Primary Primary	Endoderm Esophageal Epithelial Endoderm Esophageal Epithelial	Fetal	2nd Trimester L 2nd Trimester L	1	1	)	Biosample protocol Biosample protocol	Experiment protocol		50 15.1 50 21.1		9-10-23 9-10-23	265145031 25615600	0.6108 0.5532	294674 294200 91114 91036
CD34		ENCSR122VUW	ENCLB477RGG	ENCBS162BYU	ENCFF425TTI /	G9149 LN261	15 DS12771		Hematopoietic Progenitor	Blood	Primary	Stem Cells	Mesoderm CD 34+ Hematopoletic progenitor cells	Adult	27Y F	Cauc	RO 01480 0	1		Experiment protocol  Experiment protocol	PE minElute 1:	20 8.3		-	30377401	0.6194	80683 80564 32637 32578
CD34		ENCSR320TUJ	ENCLB512LUR	ENCBS919HJT	ENCFF580TYP / ENCFF565PME /	G9147 LN261	17 DS12785		Hematopoietic Progenitor	Blood	Primary	Stem Cells	Mesoderm CD 34+ Hematopoietic progenitor cells	Adult Adult	50Y F	Cauc	RO 01520	Ó		Experiment protocol	PE minElute 1:	20 6.6			8826203	0.5899	33926 33883
NHA NHA		ENCSR000EPM	ENCLB560ZZZ	ENCBS052WQU	J ENCFF881ZJD /	AG4142 LN262	21 DS12805	DS12805 DS12800	Nervous Nervous	Brain Brain	Primary Primary	Primary Primary	Ectoderm Astrocytes Ectoderm Astrocytes	Fetal Fetal	18W L			)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	PE minElute 1	50 8.2 50 5.7	200	9-10-30 9-10-30	196991675 22801322	0.5235	225711 225407 61707 61611
fHeart fLung NHLF	Pulmonary devel.	ENCSR986XLW	ENCLB938EKV	ENCBS346SSH	ENCFF836AEX	G9145 LN262	25 DS12817		Cardiovascular Cardiac Respiratory	Heart Lung	Primary Primary	Primary Primary	Mesoderm Heart Endoderm Lung	Fetal Fetal	101D L		H22727 1		Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol			200	9-10-30 9-10-30	26386824 23976447	0.6932	62219 62040 68001 67882
NHLF NHLF	Stromal B	ENCSR000EPR	ENCLB570ZZZ	ENCBS936GPP	ENCFF196SRL // ENCFF269IIY //	AG4140 LN263	33 DS12834	DS12829	Connective Connective	Lung	Primary Primary	Primary Primary	Mesoderm Lung Fibroblasts Mesoderm Lung Fibroblasts	Adult Adult	31Y N	f Hisp		)	Biosample protocol Biosample protocol	Experiment protocol	PE minElute 1: PE minElute 1:	20 8.8		9-11-02 9-11-02	288918603 27356341	0.7161 0.5264	293067 292691 75542 75458
NHDF_Ad NHDF_Ad	Stromal B	ENCSR000EPO	ENCLB563ZZZ	ENCBS832YVM	ENCFF546JLO / ENCFF527QMQ /	AG4139 LN264	1 DS12855	DS12863	Connective Connective	Skin	Primary Primary	Primary Primary	Mesoderm Dermal Fibroblasts	Adult Adult	38Y F	Cauc		)	Biosample protocol	Experiment protocol	PE minElute 8	9.5	200	9-11-03 9-11-03	41464229 230645579	0.7611	117837 117686 288094 287649
HPAEC HMVEC dNeo	Vancular I and ath	ENCSR000EOG	ENCLB514ZZZ	ENCBS320AAA	ENCFF116SPE / ENCFF354ETR /	G4137 LN265	57 DS12916		Cardiovascular Vascular Cardiovascular Vascular	Heart	Primary Primary	Primary Primary	Mesoderm Human Pulmonary Artery Endothelial Cells	Adult Neonatal	60Y F	Cauc	ther		Biosample protocol	Experiment protocol  Experiment protocol	PE minElute 1:	20 13.3 50 16	200	9-11-10 9-11-12	32147338 36953153	0.3038	56127 56042 74545 74419
HMVEC_dNeo	Vascular / endotnellal Vascular / endothellal	ENCSR000EOC	ENCLB507ZZZ	ENCBS317AAA	ENCFF354ETR /	G4135 LN266	DS12929 32 DS12937	DS12929	Cardiovascular Vascular	Skin	Primary	Primary	Mesoderm Dermal Microvascular Endothelial  Mesoderm Dermal Microvascular Endothelial	Neonatal	neonatal N	d Cauc/O	ther 1		Biosample protocol	Experiment protocol	PE minElute 1	50 20.2	200	9-11-12	29141689	0.4408	
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HMVEC_dAd	ENCSR000ENX E	NCLB497ZZZ	ENCBS312AAA	ENCFF773SCO AG	34133 LN2667	DS12957 DS13133 DS11909	Cardiovascular Vascula	r Skin	Primary	Primary	Mesoderm Adult Human Dermal Microvascular Endothelia	al Adult	26Y F	Cauc	•	1	Biosample protocol	Experiment protocol	PE minEl	ste 160	31.8		2009-11-16	24751452	0.3875	54744 54650
HMVEC_dLyNeo Vasquilar / ex	endothella ENCSR000EOB E	NCLB504ZZZ	ENCBS815MJP	ENCFF220SQE AG	34131 LN2724	DS13146 DS13150			Lines Primary	ESC Primary	Primitive H7 embryonic stem  Mesoderm Dermal Lymphatic Microvascular Endothelial	Neonatal		Cauc		0	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ıte 160	31.2 15.9		2009-11-16 2009-12-11	22028913 42419362		65076 64970 93936 93823
HMVEC_dLyNeo Vascular / er HMVEC_LLy Vascular / er						DS13150 DS13146 DS13185 DS13193	Cardiovascular Vascula Cardiovascular Vascula		Primary Primary	Primary Primary	Mesoderm Dermal Lymphatic Microvascular Endothelial Mesoderm Lung Lymphatic Microvascular Endothelial	Neonatal Adult	neonatal M 23Y F	Cauc		1	Biosample protocol	Experiment protocol  Experiment protocol	PE minE) PE minE)		17.3		2009-12-11	247949401 246653153	0.5835 0.6276	185590 185280 174786 174328
HMVEC_LLy Vascular / ex	endothelial ENCSR000EOE E	NCLB511ZZZ	ENCBS776PUN	ENCFF526RGO AG	34128 LN2734	DS13193 DS13185	Cardiovascular Vascula	r Lung	Primary	Primary	Mesoderm Lung Lymphatic Microvascular Endothelial	Adult	23Y F	Hisp		0	Biosample protocol	Experiment protocol	PE minEl	ıte 160	16.4		2009-12-16	29726039	0.5489	76414 76303
CD34 CD34	ENCSR495INQ E ENCSR281HBB E	NCLB262ADG NCLB623PEA	ENCBS410CRU ENCBS320LLR	ENCFF999YDR AG ENCFF029EDX AG	39144 LN2735 39143 LN2736	DS13196 DS13199	Hematopoietic Progenii Hematopoietic Progenii	tor Blood tor Blood	Primary Primary	Primary Primary	Mesoderm CD 34+ Hematopoletic progenitor cells Mesoderm CD 34+ Hematopoletic progenitor cells	Adult Adult	42Y M 49Y M	Cauc	RO 01562 RO 00738	0		Experiment protocol  Experiment protocol	PE minEl PE minEl		3.4 10.1			33396120 39240055		68149 68064 73549 73443
IMR90						DS13219 DS13229,0 DS13229 DS13219,0		Lung	Lines	Immortalized Immortalized		Fetal	16W F			1		Experiment protocol  Experiment protocol	PE minEl PE minEl		6.2		2009-12-18	226020565 31797805		224111 223858 84024 83965
HMVEC_dBlNeo Vascular / er	endothelial ENCSR000ENZ E	NCLB500ZZZ	ENCBS663WED	ENCFF957AKM AG	34127 LN2744	DS13233 DS13242	Cardiovascular Vascula	Lung r Skin	Primary	Primary	Mesoderm Dermal Blood Microvascular Endothelial	Neonatal	neonatal M	Cauc		0	Biosample protocol	Experiment protocol			19.1		2009-12-21	57764763		99021 98875
HMVEC_dBlNeo Vasquiar / co HMVEC_dLyAd Vasquiar / co	endothellal ENCSR000EOA E	NCLB502ZZZ	ENCBS633QEK	ENCFF637WSA AG	34125 LN2749	DS13242 DS13233 DS13256 DS13261	Cardiovascular Vascula Cardiovascular Vascula	r Skin	Primary Primary	Primary Primary	Mesoderm Dermal Blood Microvascular Endothelial Mesoderm Dermal Microvascular Endothelial	Neonatal Adult	neonatal M 56Y F	Afr-Am		1		Experiment protocol  Experiment protocol	PE minEl PE minEl	ıte 160 ıte 160	38.4 12.9		2009-12-21 2009-12-21	263588525 34367492	0.5929	198030 197570 83520 83400
HMVEC_dLyAd Vascular / ex						DS13261 DS13256 DS13329 DS13337	Cardiovascular Vascula		Primary Primary	Primary Primary	Mesoderm Dermal Microvascular Endothelial  Mesoderm Dermal Blood Microvascular Endothelial	Adult	56Y F	Afr-Am Cauc		0		Experiment protocol  Experiment protocol			8.3		2009-12-21	32669497 42380196		78076 77980 105658 105522
HMVEC_dBlAd Vascular / er	endothelia ENCSR000ENY E	NCLB499ZZZ	ENCBS313AAA	ENCFF910LCD AG	34122 LN2768	DS13337 DS13329	Cardiovascular Vascula	r Skin	Primary	Primary	Mesoderm Dermal Blood Microvascular Endothelial	Adult	38Y F	Cauc		1		Experiment protocol	PE minEl	ite 160	20.2		2009-12-24	219140353	0.6993	201242 200959
HMF Stromal A HMF Stromal B	ENCSR000ENW E	NCLB495ZZZ	ENCBS399FWJ	ENCFF751BDN AG	34120 LN2775	DS13368 DS13363	Connective	Mamma Mamma	ry Primary ry Primary	Primary Primary	Mesoderm Mammary Fibroblasts Mesoderm Mammary Fibroblasts	Adult Adult	20Y F 20Y F	Afr-Am Afr-Am		0	Biosample protocol Biosample protocol	Experiment protocol	PE minEl	ite 160	34 1	800000 PBS+A 2570000 PBS+A	2010-01-04 2010-01-04	26893174 266528558	0.781 0.7262	89972 89913 271919 271624
HMVEC_LBI Vascular / er HMVEC_LBI Vascular / er						DS13372 DS13375 DS13375 DS13372	Cardiovascular Vascula Cardiovascular Vascula		Primary	Primary	Mesoderm Lung Blood Microvascular Endothelial Mesoderm Lung Blood Microvascular Endothelial	Adult	56Y F	Afr-Am Afr-Am		1	Biosample protocol	Experiment protocol	PE minEl			550000 PBS+A 220000 PBS+A	2010-01-04	343583925 41660823	0.5492 0.4718	196091 195833 90221 90108
HPF VERNING	ENCSR000EOJ E	NCLB519ZZZ	ENCBS024DYT	ENCFF210KLW AG	34117 LN2778	DS13380 DS13390	Connective	r Lung Lung	Primary Primary	Primary Primary	Mesoderm Pulmonary Fibroblasts	Fetal	2nd Trimester U			0	Biosample protocol	Experiment protocol	PE minEl	ste 120	14 1	9520000 PBS+A	2010-01-05	36113399	0.5944	89329 89237
HPF HPAF						DS13390 DS13380 DS13411 DS13416	Connective	Lung	Primary ary Artery Primary	Primary	Mesoderm Pulmonary Fibroblasts  Mesoderm Pulmonary Artery Fibroblasts	Fetal	2nd Trimester U 2nd Trimester U			1	Biosample protocol	Experiment protocol	PE minEl		11.7 2 20.6 1	1960000 PBS+A 9840000 PBS+A	2010-01-05	265606223 217397516	0.6301	225044 225646 231709 231400
HPAF HPAF	ENCSR000EOH E	NCLB516ZZZ	ENCBS769DLJ	ENCFF537ETM AG	34114 LN2785	DS13416 DS13411	Connective Fetal Life Support		ry Artery Primary	Primary	Mesoderm Pulmonary Artery Fibroblasts	Fetal	2nd Trimester U			1	Biosample protocol	Experiment protocol	PE minEl	ite 160	17.2 2	0500000 PBS+A 740000 PBS+A	2010-01-07	26684419 31537442	0.6844	83561 83479
HUVEC HCFaa Stromal B	ENCSR000ENI E	NCLB466ZZZ	ENCBS307AAA	ENCFF116HHZ AG	34112 LN2800	DS13480 DS13484	Fetal Life Support Connective	Umblica	Cord Primary Primary	Primary Primary	Mesoderm umbilical vein endothelial Mesoderm Cardiac Fibroblasts - adult atrial	Adult Adult	neonatal M 60Y F	Atr-Am Cauc		1			PE minEl	ite 240	38.8 1	0190000 PBS+A	2010-01-12	31537442 326559488		57328 57215 272698 272191
HCFaa				ENCFF492LTX AG ENCFF184MGB AG		DS13484 DS13480	Connective	Heart	Primary	Primary Primary	Mesoderm Cardiac Fibroblasts - adult atrial Endoderm Lung	Adult Fetal	60Y F	Cauc	H22934	0		Experiment protocol  Experiment protocol	PE minEl			5120000 PBS+A 480000 Buffer A	2010-01-12	31384891 43334529	0.4991	73992 73890 85617 85327
AgaF	ENCSR000EMC E	NCLB412ZZZ	ENCBS408ZNY	ENCFF300XHF AG	34110 LN2811	DS13513 DS13523		Heart	Primary	Primary	Mesoderm Aortic Adventitial Fibroblasts	Adult	19Y F	Afr-Am	1122034	0	Biosample protocol	Experiment protocol	PE minEl	ste 160	16.1 1	0640000 Buffer A	2010-01-19	318544889	0.6652	255542 255067
AoAF HCT116						DS13523 DS13513 DS13547 DS13551	Connective Digestive	Heart Colon	Primary Cancer	Primary Cancer	Mesoderm Aortic Adventitial Fibroblasts Endoderm Colon adenocarcinoma	Adult Adult	19Y F	Afr-Am		0		Experiment protocol  Experiment protocol	PE minEl PE minEl			0290000 Buffer A 9700000 PBS+A	2010-01-19	30665352 30940985	0.6966 0.4206	88409 88315 67799 67700
HCT116 HPdLF	ENCSR000ENM E	NCLB475ZZZ	ENCBS409ENC	ENCFF241UFK AG	34107 LN2819	DS13551 DS13547 DS13569 DS13573	Digestive	Colon	Cancer	Cancer	Endoderm Colon adenocarcinoma	Adult Child	U M	C		1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ite 160	33.2 1	5900000 Buffer A	2010-01-20	26129916		65987 65892
HPdLF	ENCSR000EOI E	NCLB518ZZZ	ENCBS322AAA	ENCFF337TTZ AG	34105 LN2823	DS13573 DS13569	Connective	Periodor	ntal Ligar Primary ntal Ligar Primary	Primary Primary	Mesoderm Periodontal Ligament Fibroblasts  Mesoderm Periodontal Ligament Fibroblasts	Child	16Y M	Cauc		1	Biosample protocol	Experiment protocol	PE minEl	ıte 120	55.2 9	0570000 PBS+A 100000 PBS+A	2010-01-21 2010-01-21	19952753 265748820	0.6063 0.6642	
WERI_Rb1 WERI_Rb1	ENCSR000EQL E	NCLB604ZZZ NCLB604ZZZ	ENCBS679NMZ ENCBS270AAA	ENCFF280EKL AG	34104 LN2852 34103 I N2855	DS13670 DS13681 DS13681 DS13670	Nervous Nervous	Eye Eve	Cancer	Cancer	Ectoderm Retinoblastoma Ectoderm Retinoblastoma	Child	1Y F	Cauc		0	Riosamole protocol	Experiment protocol	PF minF1			1360000 Buffer A 1840000 Buffer A	2010-01-28	43427149 32871270		94449 94241 91771 91584
HRGEC	ENCSR000EOM E	NCLB525ZZZ	ENCBS324AAA	ENCFF914GHI AG	34102 LN2863	DS13705 DS13716 DS13716 DS13705	Renal	Kidney	Primary	Primary	Mesoderm Human Renal Glomerular Endothelial Cells	Fetal	2nd Trimester U			1	Biosample protocol	Experiment protocol	PE minEl	ıte 160	10.4 8	690000 Buffer A	2010-01-29	19306064	0.4493	54427 54333
HRGEC HBMEC	ENCSR000ENE E	NCLB459ZZZ	ENCBS716OLQ	ENCFF794GGD AG	34100 LN2897	DS13806 DS13817	Renal Cardiovascular Vascula	Kidney r Brain	Primary Primary	Primary Primary	Mesoderm Human Renal Glomerular Endothelial Cells Mesoderm Human Brain Microvascular Endothelial Cells	Fetal	2nd Trimester U 21W F			0	Biosample protocol  Biosample protocol	Experiment protocol Experiment protocol	PE minEl PE minEl		17.7 1	0600000 Buffer A 0600000 Buffer A	2010-01-29 2010-02-05	22034092 32330219		39851 39724 77230 77124
HBMEC HMEC						DS13817 DS13806 DS13921 DS8680	Cardiovascular Vascula Enithelial	r Brain Mamma	Primary ry Primary	Primary Primary	Mesoderm Human Brain Microvascular Endothelial Cells Ectoderm mammary epithelial	Fetal Adult	21W F 50Y F	Cauc		1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl			250000 Buffer A 1100000 Buffer A	2010-02-05 2010-02-22	35500122 24040755		91192 91059 66213 66119
HVMF	ENCSR000EOR E	NCLB535ZZZ	ENCBS825YFA	ENCFF918QUG AG	34097 LN2924	DS13977 DS13981	Connective	Placenta	Primary	Primary	Mesoderm Villous Mesenchymal Fibroblasts	Fetal	22W U	Cauc		0	Biosample protocol	Experiment protocol	PE minEl	ite 240	17.5 1	7700000 PBS+A	2010-02-25	22301758	0.625	61086 60986
HVMF flung Pulmonary o				ENCFF268MQV AG		DS13981 DS13977 DS13985	Connective Respiratory	Placenta	Primary Primary	Primary Primary	Mesoderm Villous Mesenchymal Fibroblasts Endoderm Lung	Fetal	22W U 103D M		H23090	1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl PE minEl	ate 160 ate 120	5.1 1	7700000 PBS+A 6560000 A+Sucrose	2010-02-25	249683287 41170473	0.6517	250740 250328 63146 62804
fLung Pulmonary of CD34	ENCSR639ZJI E	NCLB786RJZ	ENCBS868IZQ	ENCFF267IPT AG	39138 LN2947		Hematopoietic Progeni	Lung tor Blood	Primary	Primary	Mesoderm CD 34+ Hematopoletic progenitor cells  Mesoderm Human Renal Proximal Tubule Cells	Adult	23Y M	Cauc	RO 01525	0		Experiment protocol	PE minEl	ıte 120	11.2 1	1380000 Buffer A	2010-03-04	23832283	0.4714 0.512	57303 57233
RPTEC	ENCSR000EPW E	NCLB580ZZZ	ENCBS166KRI	ENCFF877GQV AG	34094 LN2955	DS14065 DS14061	Renal	Kidney	Primary Primary	Primary Primary	Mesoderm Human Renal Proximal Tubule Cells	Adult	49Y M	Afr-Am		0		Experiment protocol		ne 160 ne 120		7200000 PBS+A	2010-03-04	27449371		65065 64916
CD4pos_N Lymphoid CD34				ENCFF581SGL AG ENCFF601QLQ AG			Hematopoietic T-cell Hematopoietic Progenii	Blood tor Blood	Primary Primary	Primary Primary	Mesoderm CD4+ naive Mesoderm CD 34+ Hematopoletic progenitor cells	Adult Adult	26Y M 43Y M	Cauc	Wb11970640 RO 01517	1		Experiment protocol  Experiment protocol		ite 120		130000 540000 Buffer A		288101160 24230187	0.4205	91299 91014 59132 59040
CD34	ENCSR191EII E	NCLB323HYV	ENCBS912YBQ	ENCFF523AUU AG	39136 LN2999	DS14197	Hematopoietic Progeni	tor Blood	Primary	Primary	Mesoderm CD 34+ Hematopoletic progenitor cells	Adult			RO-01535	0	Biosample protocol	Experiment protocol	PE minEl	ste 160	8.1 6	300000 Buffer A		24389674	0.6518	52106 52010
CD34 A549 A549	ENCSR000ELW E	NCLB400ZZZ	ENCBS858LUL	ENCFF366CTW AG	34093 LN3026	DS14206 DS12774 DS14285 DS14289	Respiratory	tor Blood Lung	Primary Cancer	Primary Cancer	Mesoderm CD 34+ Hematopoletic progenitor cells  Endoderm Human lung carcinoma derived epithelial cell li	Adult In Adult	58Y M	Cauc	RO-01492	0	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ite 240	50 1	130000 Buffer A 1760000 Buffer A	2010-03-25	41097531 30839255	0.4237	69029 68816 63956 63847
A549	ENCSR000ELW E	NCLB401ZZZ	ENCBS163AAA	ENCFF563MTM AG	35628 LN3027	DS14289 DS14285 DS14315 DS14320	Respiratory	Lung	Cancer	Cancer	Endoderm Human lung carcinoma derived epithelial cell l	ine Adult	58Y M	Cauc		1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ıte 160	50 1	7900000 Buffer A 520000 PBS+A	2010-03-25	220202403 20062929		147820 147594 67796 67744
WI_38 WI_38 WI_38_TAM	ENCSR000EQN E	NCLB609ZZZ	ENCBS787LHJ	ENCFF136BKY AG	34091 LN3035	DS14320 DS14315	Connective	Lung	Lines	Immortalized	Mesoderm Embryonic lung fibroblasts immortilized hTER	T Fetal	12W F			0	Biosample protocol	Experiment protocol	PE minEl	ste 240	15.8 7	920000 PBS+A	2010-03-26	21132737	0.5787	61536 61493
WI_38_TAM WI_38_TAM	ENCSR000EQM E	NCLB606ZZZ NCLB607ZZZ	ENCBS070MZP	ENCFF387OVT AG ENCFF349XFN AG	34090 LN3036 34089 LN3037	DS14323 DS14328 DS14328 DS14323	Connective Connective	Lung	Lines		Mesoderm Embryonic lung fibroblasts immortilized hTER  Mesoderm Embryonic lung fibroblasts immortilized hTER		12W F			0	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	PE minEl			1500000 PBS+A 0700000 PBS+A	2010-03-26	24520347 23711471		59981 59902 50009 49929
SK_N_MC SK_N_MC	ENCSR000EPY E	NCLB583ZZZ	ENCBS400ENC	ENCFF263AOP AG	34088 LN3052	DS14408 DS14413 DS14413 DS14408	Musculoskeletal Musculoskeletal	Bone Bone	Cancer	Cancer	Ectoderm Ewing's sarcoma	Child	14Y F	Cauc		0	Biosample protocol	Experiment protocol	In-PE minEl			5760000 PBS+A 9800000 PBS+A	2010-04-02	24285048	0.3501	48048 47838 49236 49996
HSMM	ENCSR000EOO E	NCLB529ZZZ	ENCBS328AAA	ENCFF628RBU AG	34086 LN3058	DS14426 DS14430	Musculoskeletal	Bone Muscle	Lines	Cancer Immortalized	Mesoderm Human Skeletal Muscle Myoblasts	Adult	14Y F 26Y M	Cauc		1			PE minEl	te 200	6.7 1	0200000 PBS+A	2010-04-05	368115059	0.0401	49236 48986 208092 207845
HSMM (Proje				ENCFF380ZXI AG ENCFF046RPO AG		DS14430 DS14426	Musculoskeletal Neovous	Muscle	Lines	Immortalized Primary	Mesoderm Human Skeletal Muscle Myoblasts Ectoderm Brain	Adult	26Y M	Cauc	H22911	0		Experiment protocol  Experiment protocol	PE minEl			720000 PBS+A 550000 A+Sucrose	2010-04-05	34095754 24797426	0.5994 0.6183	93131 93056 76358 76147
NT2_D1	ENCSR000EPS E	NCLB571ZZZ	ENCBS578HFO	ENCFF963LPR AG	34084 LN3109	DS14564 DS14575	Embryonic	Germ	Cancer	Cancer	Primitive Human testicular embryonal carcinoma cell lin		22Y M	Cauc	TILL ST	0	Biosample protocol	Experiment protocol	PE minEl	ste 160	50 9	500000 PBS+A	2010-04-21	20876533	0.3238	46523 46433
NT2_D1 BE2_C						DS14575 DS14564 DS14625 DS14635	Embryonic Nervous	Germ Brain	Cancer	Cancer	Primitive Human testicular embryonal carcinome cell lin Ectoderm Human neuroblastoma	e Adult Child	22Y M 2Y M	Cauc		1		Experiment protocol  Experiment protocol				3800000 PBS+A 3120000 PBS+A	2010-04-19	33186554 42020281	0.3695 0.6288	71585 71390 97858 97619
BE2_C				ENCFF905MEV AG ENCFF920ZND AG		DS14635 DS14625	Nervous	Brain	Cancer Primary	Cancer Primary	Ectoderm Human neuroblastoma Endoderm Lung	Child	2Y M 67D U	Cauc	H23247	0		Experiment protocol  Experiment protocol	PE minEl			0560000 PBS+A 250000 A+Sucrose	2010-04-22 2010-04-23	51437324 20419511		99861 99615 43638 43486
fLung LNCap	ENCSR000EPF E	NCLB545ZZZ	ENCBS235TSM	ENCFF015ICH AG	34080 LN3148	DS14680 DS14684	Genitourinary	Lung Prostate	Cancer	Cancer	Endoderm prostate adenocarcinoma	Adult	50Y M	Cauc	H23247	0	Biosample protocol	Experiment protocol	PE minEl	ıte 120	50 1	6400000 PBS+A	2010-04-26	36229874	0.5447	105275 105087
hTR Lymphoid	ENCSR000EQJ E	NCLB602ZZZ	ENCBS366AAA	ENCFF674YLY AG	34078 LN3156		Genitourinary Hematopoietic T-cell	Prostate Blood	Cancer	Cancer	Endoderm prostate adenocarcinoma  Mesoderm T regulatory cells	Adult	50Y M 35Y F	Cauc	Wb78495824	1	Riosamole omtocol	Experiment protocol  Experiment protocol	PF minFi			3500000 PBS+A 580000	2010-04-26	27835199 226665720		97424 97286 123260 122938
fBrain	ENCSR026EOM E	NCLB490WSD	ENCBS471MPZ	ENCFF303NDD AG	39132 LN3164	DS14717 DS14718 DS14718 DS14717	Nervous	Brain Brain	Primary	Primary	Ectoderm Brain	Fetal	85D F		H23266 H23266	0	Biosample protocol	Experiment protocol	PE minEl	ite 100	29.4 9	360000	2010-04-30	26152372 23389536	0.4411	42715 42514 45961 45900
fLung Pulmonary	devel. ENCSR141VGA E	NCLB552RTF	ENCBS191SRJ	ENCFF147IHH AG	39130 LN3167	DS14724 DS14751	Nervous Respiratory	Brain Lung	Primary Primary	Primary Primary	Endoderm Lung	Fetal	85D F 85D F		H23266	1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ite 80		360000 5240000	2010-04-30	266350973	0.6688	279120 278366
H7_hESC_T2				ENCFF865ZBD AG		DS14732 DS14751 DS14724	Cardiovascular Cardiac Respiratory	Muscle Heart Lung	Lines Primary	ESC Primary	Mesoderm H7 embryonic stem differentiation day 2 Endoderm Lung	Embryon Fetal	85D F		H23284 H23266	1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl		50	720000 Buffer A	2010-04-24 2010-05-04	24028268 22024220		31858 31694 46342 46165
HAc	ENCSR000ENC E	NCLB455ZZZ	ENCBS303AAA	ENCFF494CSJ AG	34076 LN3179	DS14765 DS14770	Nervous	Brain	Primary	Primary	Ectoderm Human Astrocytes - cerebellar	Fetal	21W F		. 12.02.00	1	Biosample protocol	Experiment protocol	PE minEl	ıte 160	39 1	5840000 Buffer A	2010-05-05	40042979	0.4523	100260 100143
HAc HAsp						DS14770 DS14765 DS14790 DS14794	Nervous Nervous	Brain Spinal C	ord Primary	Primary Primary	Ectoderm Human Astrocytes - cerebellar Ectoderm Human Astrocytes - spinal cord	Fetal Fetal	21W F 2nd Trimester U			1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	PE minEl In-PE minEl	ate 160		1440000 Buffer A 0380000 Buffer A	2010-05-05 2010-05-06	28409726 239862490		72339 72261 204145 203622
HAsp	ENCSR000ENB E	NCLB454ZZZ	ENCBS995OME	ENCFF659WWM AG	34073 LN3185	DS14794 DS14790 DS14803 DS14815	Nervous	Spinal C	ord Primary	Primary	Ectoderm Human Astrocytes - spinal cord Ectoderm Brain	Fetal	2nd Trimester U		1122204	0		Experiment protocol	In-PE minEl		41.8 1	6800000 Buffer A 5000000 Buffer A	2010-05-06	32231827 24117298	0.4291	41041 40787 72988 72777
fLung Pulmonary	devel. ENCSR847RSJ E	NCLB783TJT	ENCBS611ZZU	ENCFF202VOA AG	39127 LN3187	DS14809 DS14820	Respiratory	Brain	Primary	Primary	Endoderm Lung	Fetal	96D F		H23284 H23284	0		Experiment protocol  Experiment protocol				5000000 Buffer A 1520000 Buffer A	2010-05-07	24117298 38339317		72988 72777 89082 88862
fBrain fLung	ENCSR156CLC E	NCLB907TUF	ENCBS496RLL ENCBS6117711	ENCFF06AZTS AG	39126 LN3188 39125 I N3189	DS14815 DS14803 DS14820 DS14809	Nervous Respiratory	Brain Lung	Primary Primary	Primary Primary	Ectoderm Brain Endoderm Lung	Fetal Fetal	96D F 96D F		H23284 H23284	1		Experiment protocol  Experiment protocol	PE minE)	ate 80	8.2 9 50 8	000000 Buffer A 510000 Buffer A	2010-05-10	20692661 19400589	0.5582 0.5573	63933 63731 47919 47724
fLung HBVP	ENCSR000ENF E	NCLB461ZZZ	ENCBS305AAA	ENCFF851HUC AG	34072 LN3192	DS14834	Cardiovascular Vascula	r Brain	Primary	Primary	Mesoderm Human Brain Vascular Pericytes	Fetal				1	Biosample protocol	Experiment protocol	In-PE minEl	ste 160	39.8 1	7200000 PBS+A	2010-05-10	44195360	0.3866	45191 45050
HBVSMC HBVSMC	ENCSR000ENG E	NCLB462ZZZ NCLB463ZZZ	ENCBS559NJN ENCBS306AAA	ENCFF876LIP AG ENCFF461IZS AG	34071 LN3197 34070 LN3201	DS14845 DS14860 DS14860 DS14845	Musculoskeletal Smooth Musculoskeletal Smooth			Primary Primary	Mesoderm Human Brain Vascular Smooth Muscle Cells Mesoderm Human Brain Vascular Smooth Muscle Cells	Fetal Fetal	20/21 Wk gest F 20/21 Wk gest F			0		Experiment protocol  Experiment protocol				4960000 PBS+A 3440000 PBS+A	2010-05-11	25325988 24640267		52389 52272 41151 41009
HFF_MyC	ENCSR000ENR E	NCLB484ZZZ	ENCBS411AMC	ENCFF265UVV AG	34069 LN3249	DS15073 DS15079 DS15079 DS15073	Connective	Skin	Lines	Immortalized	Mesoderm Human Foreskin Fibroblasts_Myc Transgene	Neonatal	М			0	Biosample protocol	Experiment protocol	PE minEl	ute 80	50 1	4500000 PBS 5240000 PBS	2010-05-25	19583114	0.4607	50106 50042
HFF_MyC HFF	ENCSR000ENQ E	NCLB482ZZZ	ENCBS309AAA	ENCFF743EEY AG	34067 LN3259	DS15115 DS15119	Connective Connective	Skin	Lines	Immortalized Immortalized	Mesoderm Human Foreskin Fibroblasts_Myc Transgene Mesoderm Human Foreskin Fibroblasts	Neonatal	M M			1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl			5240000 PBS 0960000 PBS+A	2010-05-25 2010-06-01	29210907 209535022		66519 66403 207099 206736
HFF fAdrenal	ENCSROODENQ E	NCLB483ZZZ	ENCBS148GEQ	ENCFF354XPO AG ENCFF545QTY AG	34066 LN3260	DS15119 DS15115	Connective Endocrine	Skin Adrenal	Lines Gland Primary	Immortalized Primary	Mesoderm Human Foreskin Fibroblasts Mesoderm Adrenal	Neonatal Fetal	85D M		H22227	0	Biosample protocol	Experiment protocol	PE minEl			600000 PBS+A 940000 A+Sucrose	2010-06-01	20997521		63377 63263 40882 40654
iPS_19_7	ENCSR440QMR E	NCLB743SGM	ENCBS858DVB	ENCFF288JLF AG	39123 LN3273	DS15148	Embryonic	Germ	Lines	IPSC	Primitive Induced pluripotent stem cells	Neonatal	M		1120021	0	Biosample protocol	Experiment protocol	PE minEl	ite 80	29 9	360000 PBS	2010-05-26	20267077	0.3378	41732 41597
IPS_6_9 IPS 4 7				ENCFF516BXE AG ENCFF025AXV AG			Embryonic Embryonic	Germ	Lines	IPSC	Primitive Induced pluripotent stem cells Primitive Induced pluripotent stem cells	Neonatal Neonatal				0	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl			1520000 PBS 920000 PBS	2010-05-27	22105887 19477087		40426 40274 31392 31278
IPS_4_7 HAh	ENCSR000ENA E	NCLB451ZZZ	ENCBS301AAA	ENCFF665CAR AG	34065 LN3285	DS15192 DS15202	Nervous	Brain	Primary	Primary	Ectoderm Human Astrocytes - hippocampal	Fetal	24W F			1	Biosample protocol	Experiment protocol	In-PE minEl	ıte 120	24.2 9	800000 PBS+A	2010-06-07	299529818	0.5915	254968 254347
HAN fLung	ENCSR076YBB E	NCLB122PEF	ENCBS015WUS	ENCFF123UKG AG	39120 LN3295		Respiratory	Brain Lung	Primary Primary	Primary Primary	Ectoderm Human Astrocytes - hippocampal Endoderm Lung	Fetal Fetal	24W F 108D M		H23365	0	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl	ıte 100	50 1	5700000 PBS+A 5700000 A+Sucrose	2010-06-09 2010-06-08	27227738 21595564	0.43	34662 34536 39713 39498
HAh fLung K562 fBrain				ENCFF021UTP AG ENCFF614GHM AG			Hematopoietic Erythroi Nervous		Cancer Primary	Cancer	Mesoderm Ectoderm Brain	Adult Ent-1	53Y F		H22200	0 1	Biosample protocol	Experiment protocol  Experiment protocol	PE minEl			8400000 Buffer A 760000 A+Sucrose	2010-06-14 2010-06-21	237103568		157774 157512 41142 40659
fLung	ENCSR006IJP E	NCLB771UEZ	ENCBS007KEC	ENCFF163BQZ AG	39118 LN3355	DS15461	Respiratory	Brain Lung	Primary	Primary Primary	Endoderm Lung	Fetal	112D U		H23399 H23399	1	Biosample protocol	Experiment protocol	In-PE minEl		33.3 8	160000 A+Sucrose	2010-06-21	34450547 35561898		62039 61725
HSMM_D HSMM_D						DS15538 DS15542 DS15542 DS15538	Musculoskeletal Musculoskeletal	Muscle Muscle	Lines	Immortalized Immortalized	Mesoderm Human Skeletal Muscle Myoblasts Mesoderm Human Skeletal Muscle Myoblasts	Adult Adult	26Y M 26Y M	Cauc		1 0		Experiment protocol  Experiment protocol		de 160		000000 PBS+A 000000 PBS+A	2010-06-28	25630660 28332359	0.6481	73664 73568 43277 43170
				ENCFF293VAO AG			Respiratory	Lung	Primary	Primary	Endoderm Lung	Fetal	82D M	Canac	H23419	1	Biosample protocol	Experiment protocol	In-PE minEl	ite 80	17.2 7	840000 A+Sucrose	2010-06-30	37003026	0.3964	54407 54011
fLung	ENCSR587HPR E																									
fLung fLung_R fLung_L	ENCSR587HPR E ENCSR845MEJ E ENCSR541AVF E	NCLB220BEH NCLB488FIS	ENCBS861CBE ENCBS287DAY	ENCFF872WMD AG ENCFF812CLF AG	39116 LN3398 39115 LN3399	DS15632 DS15637	Respiratory	Lung Lung	Primary Primary	Primary	Endoderm Lung Endoderm Lung	Fetal	117D F		H23435 H23435	1	Biosample protocol	Experiment protocol		ite 80	60.2 1	4600000 A+Sucrose 5400000 A+Sucrose	2010-07-07 2010-07-07	27870457 35392237	0.4294	46711 46389 59972 59687
fLung_R fLung_L fHeart	ENCSR587HPR E ENCSR845MEJ E ENCSR541AVF E ENCSR174JMM E	NCLB220BEH NCLB488FIS NCLB222RTS	ENCBS861CBE ENCBS287DAY ENCBS818LNM	ENCFF872WMD AG ENCFF812CLF AG ENCFF583OOQ AG	39116 LN3398 39115 LN3399 39114 LN3400	DS15632 DS15637 DS15643	Respiratory Respiratory Cardiovascular Cardiac	Heart	Primary	Primary	Endoderm Lung Mesoderm Heart	Fetal Fetal Fetal	117D F		H23435 H23435	1 1 1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	In-PE minEl	ate 80	60.2 1 80 8	5400000 A+Sucrose 310000 A+Sucrose	2010-07-07 2010-07-07	35392237 20085543	0.4294 0.63	59972 59687 36013 35797
flung flung_R flung_L flear flear floor, R floor, R H7_hESC_T5 H7_hESC_T9	ENCSR587HPR E ENCSR845MEJ E ENCSR541AVF E ENCSR774JMM E ENCSR765BSU E ENCSR000EMW E	NCLB220BEH NCLB488FIS NCLB222RTS NCLB182ILL NCLB445ZZZ	ENCBS861CBE ENCBS287DAY ENCBS818LNM ENCBS168SAJ ENCBS296AAA	ENCFF872WMD AG ENCFF812CLF AG ENCFF583OOQ AG ENCFF397XMM AG	39116 LN3398 39115 LN3399 39114 LN3400 39113 LN3402 34061 LN3408	DS15632 DS15637 DS15643 DS15651 DS15665 DS11953	Respiratory Respiratory Cardiovascular Cardiac Renal	Heart Kidney	Primary Primary Primary Primary Lines	Primary Primary Primary Primary ESC	Endoderm Lung	Fetal Fetal Fetal Fetal Embryon	117D F		H23435	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Biosample protocol Biosample protocol	Experiment protocol	In-PE minEl	te 80 te 80 te 60 te 80	60.2 1 80 8 31.6 8 63.4 7	5400000 A+Sucrose	2010-07-07	35392237	0.4294 0.63 0.3682	59972 59687

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Biosanti	4oc Sport	DECEM	Dec IR.	DCC BIO	OCC FIRE	ARIUS AN	are's Replied Replied	System	Subsyste	Organ	Biosami	Biologica	Gerries Descript	Store	P.Ge	Set Ethnicity	Darat B	Unique Used	Bussell	Experien	Tiplack Tiplack	DHassel Art	Durit Huchi Co	Profeser	Library &	Reads u	DCC SPRC Per Hot	DHER IN
fHeart CD4				ENCBS312JJA ENCBS117TZS	ENCFF918JFM A ENCFF337KMH A			Cardiovascula Hematopoieti		Heart Blood	Primary Primary	Primary Primary	Mesoderm Heart Mesoderm CD4+ cells	Fetal Adult	96D 33Y	M F Cauc	H23468 0	)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol		te 80 22 te 80 37	4800000 5040000		2010-07-20 2010-07-28	24834995 31185261	0.4732 17901 0.4149 30605	17466 5 30409
fHeart fintestine_Lg		ENCSR914DOH I	ENCLB442TPP	ENCBS746QTW	ENCFF846WVW A ENCFF891YFJ A	AG9109 LN3	3509 DS16018	Cardiovascula Digestive	ar Cardiac	Heart Large Intestin	Primary e Primary	Primary Primary	Mesoderm Heart Endoderm Intestine_Lg	Fetal Fetal	103D 103D	F	H23500 1		Biosample protocol	Experiment protocol  Experiment protocol	In-PE minElu	te 80 31.		A+Sucrose A+Sucrose	2010-08-02 2010-08-02	23928136 25640122	0.5722 32114 0.3379 28563	
fKidney		ENCSR499PZA	ENCLB666SZB	ENCBS550PQQ	ENCFF0210VF A	4G9107 LN3	3572 DS16139	Renal		Kidney	Primary	Primary	Mesoderm Kidney	Fetal	105D	м	H23524 0		Biosample protocol	Experiment protocol	In-PE minElu	te 60 36.6	6 7800000	A+Sucrose	2010-08-10	28581779	0.4059 27986	5 27778
fHeart fintestine_Lg		ENCSR531HPD	ENCLB935RRY	ENCBS733SDO	ENCFF082LEM A ENCFF742DDE A	G9105 LN3	3584 DS16164	Cardiovascula Digestive Nervous	ar Cardiac	Heart Large Intestin	Primary e Primary	Primary Primary	Mesoderm Heart Endoderm Intestine_Lg	Fetal Fetal	105D 105D	M	H23524 0	1	Biosample protocol		In-PE minElu	te 40 37	4 7980000	A+Sucrose A+Sucrose	2010-08-10 2010-08-10	32108399 26158378	0.4959 52645 0.482 47679	
fBrain CD56					ENCFF085SMS A ENCFF164HBH A			Nervous Hematopoieti	c	Brain Blood	Primary Primary	Primary Primary	Ectoderm Brain Mesoderm CD56	Fetal Adult	142D 34Y	F Cauc	H23548 1	)	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	In-PE minElu In-PE minElu		4 5760000 4 7200000	Buffer A	2010-08-17	34185925 34479221	0.4588 52540 0.3097 35943	52111 3 35662
fKidney_R fKidney_L	Tissue invariant	ENCSR871APX I	ENCLB821MWU	ENCBS082XOA	ENCFF434WFB A	G9102 LN3	3690 DS16441	Renal		Kidney	Primary	Primary Primary	Mesoderm Kidney Mesoderm Kidney	Fetal	147D	F	H23589		Biosample protocol	Experiment protocol	In-PE minElu		4 5810000	A+Sucrose	2010-08-30	37529612 29441634	0.3648 47328 0.3071 31615	
fThymus fHeart		ENCSR777USE I	ENCLB429HIF	ENCBS280SJR	ENCFF652XDJ A	4G9100 LN3	3700 DS16490	Hematopoleti Cardiovasculi	c T-cell	Blood	Primary	Primary Primary	Mesodern Thymus Mesodern Heart	Fetal	147D	F	H23589 1		Biosample protocol	Experiment protocol		te 100 31	6120000	A+Sucrose	2010-09-01	34427981	0.3404 38388 0.4864 30939	8 38134
fHeart fStomach		ENCSR627KFV	ENCLB914WMH	ENCBS109VNU	ENCFF740ZEY A	AG9098 LN3	3712 DS16530	Digestive	ar Cardiac	Stomach Stomach	Primary	Primary	Endoderm Stomach	Fetal	147D 110D	F	H23604 1		Biosample protocol	Experiment protocol	In-PE minElu	te 100 56.4	4 5130000	A+Sucrose	2010-09-07	33607731 29204363	0.4864 30939 0.3615 35327	
fintestine_Sm fintestine_Lg	Digestive				ENCFF292SCK A ENCFF792BMH A			Digestive Digestive		Small Intestin		Primary Primary	Endoderm Intestine_Sm Endoderm Intestine_Lg	Fetal Fetal	110D 110D	F	H23604 1		Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	In-PE minElu			A+Sucrose A+Sucrose	2010-09-08 2010-09-08	35900882 69171806	0.4096 49051 0.3931 88343	1 48721 3 88005
fLung_R fLung_L					ENCFF608KSU A ENCFF967WJI A			Respiratory Respiratory		Lung	Primary Primary	Primary Primary	Endoderm Lung Endoderm Lung	Fetal Fetal	110D 110D	F	H23604 1		Biosample protocol	Experiment protocol  Experiment protocol	In-PE minElu			A+Sucrose A+Sucrose	2010-09-09 2010-09-09	30296895 37843202	0.5154 45383 0.5059 64580	
fKidney_L		ENCSR974TXT I	ENCLB867KSQ	ENCBS629UDA	ENCFF531IKO A	4G9093 LN3	3718 DS16579	Renal		Kidney	Primary	Primary	Mesoderm Kidney	Fetal	110D	F	H23604 1		Biosample protocol	Experiment protocol	In-PE minElu	te 80 118	3.6 6660000	A+Sucrose	2010-09-09	34879125	0.3818 38542	2 37949
fHeart HS5		ENCSR000EMG I	ENCLB419ZZZ	ENCBS010ENC	ENCFF966CRZ A ENCFF786UQM A	4G4060 LN3	3725 DS16597	Cardiovascula Connective	ar Cardiac	Heart Stroma	Primary Lines	Primary Immortalized	Mesoderm Heart  Mesoderm Human Stromal cell line HS-5	Fetal Adult	110D 30Y	F Cauc	H23604 1		Biosample protocol		In-PE minElu	te 80 72.	1 6300000		2010-09-10 2010-09-14	35949205 39633601	0.6356 70777 0.497 84372	2 84191
HS27a fHeart					ENCFF418ERA A ENCFF598EMP A		3726 DS16602 3732 DS16621	Connective	ar Cardiac	Stroma Heart	Lines Primary	Immortalized Primary	Mesoderm Human Stromal cell line HS-27a Mesoderm Heart	Adult Fetal	30Y 110D	M Cauc M	H23617 (			Experiment protocol  Experiment protocol	In-PE minElu In-PE minElu	te 120 100 te 90 75.		PBS+A A+Sucrose	2010-09-14	34147014 36200019	0.4536 62391 0.5749 55902	
fintestine_Sm fLung_R	Duta sasan daval	ENCSR354FBA	ENCLB578SNT	ENCBS935HZX	ENCFF376ZDM A ENCFF876LHW A	4G9090 LN3	3755 DS16712	Digestive Respiratory		Small Intestin		Primary Primary	Endoderm Intestine_Sm Endoderm Lung	Fetal	115D	M	H23640 1		Biosample protocol	Experiment protocol  Experiment protocol	PE minElu	te 80 16.	2 4440000	A+Sucrose A+Sucrose	2010-09-21	19472379 38160430	0.3992 40495 0.4544 63067	5 40367
fKidney_R	Pullionary devel.	ENCSR990XXC I	ENCLB499LHF	ENCBS803DCZ	ENCFF131TMN A	4G9088 LN3		Renal		Lung Kidney	Primary	Primary	Mesoderm Kidney	Fetal	115D	M	H23640 1		Biosample protocol	Experiment protocol	In-PE minElu		8 5490000	A+Sucrose	2010-09-22	37948649	0.5165 61691	1 61349
fKidney_L CD34	Organ devel. / renal	ENCSR000EMK I	ENCLB426ZZZ	ENCBS485ENC	ENCFF653NSH A	G5623 LN3	3779 DS16805 3782 DS16814	Renal Hematopoleti	c Progenitor	Kidney Blood	Primary Primary	Primary Stem Cells	Mesoderm Kidney  Mesoderm Hematopoietic progenitor cells	Fetal Adult	115D 21Y	M Cauc	H23640 1			Experiment protocol  Experiment protocol	In-PE In-PE		7170000 7440000	Buffer A		104350237 48112395	0.659 143175 0.705 94063	
fHeart fintestine Sm	Cardiac Digestive				ENCFF013DGQ A		3787 DS16819 3788 DS16822	Cardiovascula Digestive	ar Cardiac	Heart Small Intestin	Primary e Primary	Primary Primary	Mesoderm Heart Endoderm Intestine Sm	Fetal Fetal	105D 105D	F	H23663 1			Experiment protocol  Experiment protocol	In-PE minEt-	te 40 /41		A+Sucrose A+Sucrose	2010-09-27	59478280 39853546	0.6575 114309 0.405 67461	09 114010 1 67268
CD3		ENCSR414IHC	ENCLB092RHM	ENCBS881BDJ	ENCFF613FKT A ENCFF412YBW A	AG9084 LN3	3792 DS16834	Hematopoleti Renal	c T-cell	Blood	Primary	Primary Primary	Mesoderm CD3+ T cells Mesoderm Kidney	Adult Fetal	21Y 105D	M Cauc	RO 01679 0 H23663 0		Biosample protocol	Experiment protocol  Experiment protocol	PE minElu	te 160 12.5	9 4090000	Buffer A	2010-09-28 2010-09-29	47086619	0.3837 49468 0.3928 39761	8 49284
fKidney fThymus		ENCSR838IPF	ENCLB231BFD	ENCBS762JNN	ENCFF291YIS A	4G9082 LN3	3795 DS16841	Hematopoieti		Kidney Blood	Primary Primary	Primary	Mesoderm Thymus	Fetal	105D	F	H23663 1	í	Biosample protocol	Experiment protocol	In-PE minElu	te 60 53.	2 4230000	A+Sucrose	2010-09-29	30330102 29066442	0.3695 34832	2 34628
K562 CD4	Myeloid / erythroid				ENCFF201KEN A ENCFF487IPQ A			Hematopoieti Hematopoieti		Blood	Cancer Primary	Cancer	Mesoderm CD4+ cells	Adult Adult	53Y 21Y	F M Cauc	RO 01679	1 1		Experiment protocol  Experiment protocol		te 120 36.3 te 120 53.4			2010-10-06 2010-10-12	241485881 36830147	0.5933 172610 0.4073 42165	
CD8		ENCSR842VTJ	ENCLB979DCJ	ENCBS055LRK	ENCFF366CES A ENCFF506PUG A	4G9080 LN3	3828 DS16962	Hematopoieti		Blood	Primary	Primary Primary	Mesoderm CD8+ cells	Adult	21Y 87D	M Cauc	RO 01679 0		Biosample protocol	Experiment protocol	In-PE minElu	te 120 36.	1 5460000		2010-10-14	23201906 28730946	0.3986 32922 0.4966 55229	2 32741
fintestine_Sm fKidney		ENCSR262QJC	ENCLB800UHP	ENCBS478OZL	ENCFF527MRJ A	4G9078 LN3	3859 DS17068	Digestive Renal		Small Intestin	Primary	Primary	Endoderm Intestine_Sm  Mesoderm fKidney	Fetal	87D 87D	M	H23724 1		Biosample protocol	Experiment protocol	In-PE minElu	te 100 69.	1 6440000	A+Sucrose	2010-10-23	24367478	0.3213 23329	23090
fintestine_Sm fintestine_Lg				ENCBS325XPI ENCBS022EQP	ENCFF992DWJ A ENCFF571EWS A			Digestive Digestive		Small Intestin		Primary Primary	Endoderm Intestine_Sm Endoderm Intestine_Lg	Fetal Fetal	91D 91D	F	H23744 1	)	Biosample protocol Biosample protocol		In-PE minElu			A+Sucrose A+Sucrose	2010-10-25 2010-10-25	22462519 34106606	0.5357 38306 0.3789 45558	
fLung_R fLung_L		ENCSR263IGU I	ENCLB097RTD	ENCBS233WJN	ENCFF903UJL A	G9075 LN3	3873 DS17101	Respiratory		Lung	Primary Primary	Primary Primary	Endoderm Lung Endoderm Lung	Fetal Fetal	91D 91D	F	H23744 1			Experiment protocol  Experiment protocol	In-PE minElu		5850000 5100000	A+Sucrose	2010-10-26 2010-10-26	38198299 33307832	0.6164 74367 0.5563 63808	7 74058 8 63489
CD34		ENCSR772HUG	ENCLB393ZTT	ENCBS722AKC	ENCFF497TSW A	AG9073 LN3	3876 DS17112	Hematopoieti	c Progenitor	Blood	Primary	Stem Cells	Mesoderm CD3+ T cells	Adult	37Y	M Hisp	RO 01701			Experiment protocol	In-PE minElu	te 120 43.1	8 6860000	Buffer A		19396471	0.5259 44883	
fKidney_L fKidney_R	Tissue invariant Tissue invariant	ENCSR036VRV I	ENCLB691LMZ	ENCBS164TRX	ENCFF194EXA A ENCFF957JIY A	4G9071 LN3	3893 DS17144	Renal Renal		Kidney Kidney	Primary Primary	Primary Primary	Mesoderm kidney Mesoderm Kidney	Fetal Fetal	107D 107D	F	H23758 1				In-PE minElu	te 80 49.3	3 6720000	A+Sucrose A+Sucrose	2010-10-29 2010-10-29	24386583 24619723	0.4957 39056 0.4981 45700	5 38683 0 45431
fintestine_Sm fLung_L					ENCFF164WDR A ENCFF953JYK A			Digestive Respiratory		Small Intestin	e Primary Primary	Primary Primary	Endoderm Intestine_Sm Endoderm Lung	Fetal	107D 107D	F	H23758 1			Experiment protocol  Experiment protocol	In-PE minElu In-PE minElu			A+Sucrose A+Sucrose	2010-11-01	23203816 52173786	0.456 38645 0.5449 76447	5 38452 7 76011
fintestine_Lg		ENCSR563XRP I	ENCLB973GOU	ENCBS746BPC	ENCFF781UNV A	4G9068 LN3	3896 DS17157	Digestive		Large Intestin	e Primary	Primary	Endoderm Intestine Lg	Fetal	107D	F	H23758 1		Biosample protocol	Experiment protocol	PE minElu	te 40 12.5	9 5270000	A+Sucrose	2010-11-01	20954765	0.3855 41162	2 41081
fLung_R fStomach		ENCSR082XEU I	ENCLB915UYX	ENCBS220QDW	ENCFF818BSH A ENCFF441XNG A	4G9066 LN3	3901 DS17172	Respiratory Digestive		Stomach	Primary Primary	Primary Primary	Endoderm Lung Endoderm Stomach	Fetal	107D 107D	F	H23758 1		Biosample protocol	Experiment protocol	In-PE minElu	te 80 18.	1 2340000	A+Sucrose A+Sucrose	2010-11-01 2010-11-01	30456387 25082641	0.5943 58907 0.4242 34089	33834
CD4 CD19					ENCFF063WKI A ENCFF894NGY A			Hematopoieti Hematopoieti	c T-cell c Lymphoid	Blood	Primary Primary	Primary Primary	Mesoderm CD4+ T cells Mesoderm CD19+ B cells	Adult Adult	37Y 21Y	M Hisp M Cauc	RO 01701 0	1 1		Experiment protocol  Experiment protocol	In-PE minElu				2010-11-02 2010-11-02	25025691 490844799	0.3647 30807 0.5371 117646	7 30687 46 116747
CD56 CD3	Lymphoid	ENCSR704HNG I	ENCLB968GLJ	ENCBS439LTB	ENCFF405EJP A ENCFF332DXC A	4G9063 LN3	3905 DS17189	Hematopoieti Hematopoieti	c Lymphoid	Blood	Primary Primary	Primary Primary	Mesoderm CD56+ cells Mesoderm CD3+ T cells	Adult	21Y 21Y	M Cauc M Cauc	RO 01721 1	1	Biosample protocol	Experiment protocol	PE minElu	te 100 4.2	5220000	Buffer A	2010-11-02	575432695	0.5958 128920 0.6205 106906	20 128464
CD8	Lymphoid	ENCSR020LUD I	ENCLB798GQN	ENCBS312SQY	ENCFF522KLO A	4G9061 LN3	3907 DS17203	Hematopoieti	c T-cell	Blood	Primary	Primary	Mesoderm CD8+ T cells	Adult	21Y	M Cauc	RO 01721/RC	1	Biosample protocol	Experiment protocol  Experiment protocol	PE minElu	te 120 7.6	4200000	Buffer A	2010-11-03	556834775	0.7326 139045	
CD14 CD19		ENCSR891VOV	ENCLB894REI	ENCBS727DXY	ENCFF198JUA A ENCFF626DZD A	G9059 LN3	3921 DS17281		c Lymphoid	Blood	Primary Primary	Primary Primary	Mesoderm CD14+ monocytes Mesoderm CD19+ B cells	Adult Adult	21Y 34Y	M Cauc F Cauc	RO 01721 1	1 1	Biosample protocol		In-PE minElu		3 6880000	Buffer A	2010-11-03 2010-11-05	384036115 23750545	0.5923 147687 0.4362 34579	
fKidney_renal_cort	Tissue invariant				ENCFF292VWM A			Renal		Kidney Large Intestin	Primary	Primary Primary	Mesoderm Kidney Endoderm Intestine Lo	Fetal	108D	M	H23769 0		Biosample protocol	Experiment protocol	In-PE minElu			A+Sucrose A+Sucrose	2010-11-06	31434918 387804730	0.4512 45310 0.4907 198369	0 44896 59 197480
fintestine_Sm	Digestive	ENCSR945RWN	ENCLB449ATC	ENCBS918JWZ	ENCFF069BVT A	4G9056 LN3	3929 DS17317	Digestive Digestive		Small Intestin	e Primary	Primary	Endoderm Intestine_Sm Mesoderm Adrenal	Fetal	108D	м	H23769 1		Biosample protocol	Experiment protocol		te 60 32.4	4 6440000	A+Sucrose	2010-11-08	314501389	0.4527 179742 0.3265 43916	42 178795
tAdrenal CD4		ENCSR328UMC	ENCLB882RDH	ENCBS374YBC	ENCFF887KYL A	4G9052 LN3	3935 DS17329	Hematopoleti		Adrenal Glan Blood	Primary	Primary	Mesoderm CD4+ T cells	Fetal Adult	34Y	F Cauc	RO 01689		Biosample protocol	Experiment protocol	In-PE minElu	te 140 30.	7 4590000	Buffer A	2010-11-09	30258748	0.3729 31159	9 30980
CD8 fKidney_renal_pelv	v				ENCFF129CPA A ENCFF847WYF A			Hematopoieti Renal	c T-cell	Blood Kidney	Primary Primary	Primary Primary	Mesoderm CD8+ T cells Mesoderm kidney	Adult Fetal	34Y 108D	F Cauc	RO 01689 0 H23790 1			Experiment protocol	In-PE minElu PE minElu			Buffer A A+Sucrose	2010-11-11	24073610 29346985	0.3264 27333 0.5301 57067	
fKidney_renal_cort		ENCSR129KIV	ENCLB895BSF	ENCBS789YVL	ENCFF555JNA A ENCFF591CXP A	4G9048 LN3	3947 DS17387	Renal Hematopoleti		Kidney Blood	Primary Primary	Primary Primary	Mesoderm kidney Mesoderm CD14+ monocytes	Fetal Adult	108D	M F Cauc	H23790 1		Biosample protocol	Experiment protocol  Experiment protocol	PE minElu	te 80 15.5		A+Sucrose	2010-11-12	24810671 21224065	0.5861 56141 0.4249 41519	55971
fintestine Lg		ENCSR366EQH I	ENCLB601VGE	ENCBS997WGU	ENCFF564MOW A	4G9046 LN3	3956 DS17422	Digestive		Large Intestin	e Primary	Primary	Endoderm Intestine_Lg	Fetal	115D	M Cauc	H23808 1	í	Biosample protocol	Experiment protocol	In-PE minElu	te 40 22.5	5 6720000	A+Sucrose	2010-11-29	23847386	0.4521 36661	1 36509
fMuscle_leg fMuscle_arm					ENCFF361ERE A ENCFF900QXY A			Musculoskele Musculoskele	etal Skeletal Musc etal Skeletal Musc	de Muscle	Primary Primary	Primary Primary	Mesoderm Muscle_leg Mesoderm Muscle_arm	Fetal Fetal	115D 115D	M	H23808 1			Experiment protocol  Experiment protocol	In-PE minElu In-PE minElu			A+Sucrose A+Sucrose	2010-11-29 2010-11-29	26823025 29255395	0.3863 31929 0.4055 45641	
CD19 tSoleen					ENCFF032YGU A			Hematopoieti	c Lymphoid	Blood Spleen	Primary Primary	Primary Primary	Mesoderm CD19+ B cells Mesoderm Spieen	Adult	37Y	M Hisp	RO 01736 0		Biosample protocol Biosample protocol	Experiment protocol	In-PE minElu PE minElu	te 120 22.5			2010-11-30	25855759 27806266	0.3582 32444 0.3514 37912	
	Tissue invariant				ENCFF129OCO A		3968 DS17451	Renal		Kidney	Primary	Primary	Mesoderm kidney	Fetal	113D	М	H23833		Biosample protocol	Experiment protocol		te 70 16.I	8 5460000	A+Sucrose	2010-12-03	34958440	0.4314 47768	
fKidney_renal_cort fintestine_Lg	Organ devel. / renal Digestive	ENCSR047FNH I	ENCLB206MEV	ENCBS028WMZ	ENCFF314TBM A ENCFF064LNR A	4G9037 LN3		Renal Digestive		Large Intestin		Primary Primary	Mesoderm kidney Endoderm Intestine_Lg	Fetal Fetal	113D 113D	M	H23833 1		Biosample protocol	Experiment protocol  Experiment protocol		te 60 11.5 te 60 38.5	5 5550000	A+Sucrose A+Sucrose	2010-12-03 2010-12-06	29222868 52885665	0.6276 69687 0.3181 63774	
fLung_L fKidney		ENCSR437KLY	ENCLB103CUY	ENCBS434EOI	ENCFF740HWF A ENCFF267BDV A	4G9033 LN4	4008 DS17522	Respiratory Renal		Lung Kidney	Primary Primary	Primary Primary	Endoderm Lung Mesoderm fKidney	Fetal Fetal	113D 85D	M F	H23833 1 H23855 0			Experiment protocol			2 5070000	A+Sucrose A+Sucrose	2010-12-06 2010-12-17	38587147 36142773	0.5163 63779 0.3434 30192	9 63516 2 29868
CD3 CD20		ENCSR366YTD I	ENCLB597AVO	ENCBS495KDC	ENCFF160AUN A ENCFF883DGN A	NG9032 LN4	4011 DS17534	Hematopoieti Hematopoieti		Mesoderm Blood	Primary Primary	Primary Primary	Mesoderm CD3 Mesoderm B cells	Adult Adult	37Y 27Y	M Hisp F Afr.Am	RO 01701 0	1	Biosample protocol		In-PE minElu	te 120 51.I	8 8730000	Buffer A	2010-12-16	35163820 33007342	0.4165 40156 0.4792 45177	39977
fKidney_renal_cort	tex_R	ENCSR014VAC I	ENCLB782MZC	ENCBS100DZU	ENCFF260BTA A	NG9031 LN4	4014 DS17545	Renal	Lymphoid	Kidney	Primary	Primary	Mesoderm Kidney.cortex	Fetal	105D	M Ar-Am	H23871 0		Biosample protocol	Experiment protocol	In-PE minElu	te 60 17.	1 4860000	A+Sucrose	2010-12-22	37545518	0.3129 33670	33314
fKidney_renal_peh fKidney_renal_cort		ENCSR092WMD	ENCLB838XGP	ENCBS376PWL	ENCFF998ZJT A ENCFF473XKD A	4G9029 LN4	4016 DS17550	Renal Renal		Kidney	Primary Primary	Primary Primary	Mesoderm kidney Mesoderm kidney	Fetal Fetal	105D 105D	M	H23871 0		Biosample protocol		In-PE minElu	te 60 18.3	7 4050000	A+Sucrose A+Sucrose	2010-12-20 2010-12-20	34276324 32713751	0.4189 45529 0.4948 46266	5 45928
fKidney_renal_peli		ENCSR016THC	ENCLB087GBB		ENCFF953BKE A	4G9028 LN4		Renal Hematopoieti	c T-cell	Kidney Blood	Primary Primary	Primary Primary	Mesoderm kidney Mesoderm T1 helper	Fetal Adult	105D 33Y	M Cauc	H23871 0		Biosample protocol	Experiment protocol		te 60 25.5	9 6930000	A+Sucrose	2010-12-20 2010-12-27	27969118 20089298	0.4395 34875 0.3363 35381	5 34601
hTH2	Lymphoid	ENCSR000EQI I	ENCLB601ZZZ	ENCBS153AAA	ENCFF602LJX A	4G4054 LN4	4024 DS17597	Hematopoieti	c T-cell	Blood	Primary	Primary	Mesoderm T2 helper cells	Adult	33Y	M Cauc	Wb54553204 0		Biosample protocol	Experiment protocol	PE minElu	te 80 6.4	7760000	Buffer A	2010-12-27	399625390	0.7495 177600	00 177163
II HZ fPlacenta	Placental / trophoblas	ENCSR129TSG	ENCLB452OOX	ENCBS688ZPB	ENCFF487KZL A	G9027 LN4	4046 DS17639	Hematopoleti Fetal Life Sup		Placenta	Primary Primary	Primary Primary	Mesoderm T2 helper cells, induced Endoderm Placenta	Adult Fetal	33Y 108D	M Cauc F	Wb54553204 1 H23887 1	1	Biosample protocol		In-PE minElu	te 60 26.4	4 6780000	A+Sucrose	2010-12-27 2011-01-03	383011753 72846511	0.5128 109979 0.3566 106238	38 106026
fintestine_Sm fintestine_La	Digestive Digestive				ENCFF499CYQ A ENCFF601DZA A			Digestive Digestive		Small Intestin		Primary Primary	Endoderm Intestine_Sm Endoderm Intestine_Lg	Fetal Fetal	108D 108D	F	H23887 0		Biosample protocol		In-PE minElu			A+Sucrose A+Sucrose	2011-01-03	45592211 67400698	0.3262 54778 0.3246 73715	5 54561 5 73396
fStomach fMuscle upper lim		ENCSR511GQA	ENCLB896ZQW	ENCBS246MHN	ENCFF767HRR A	4G9024 LN4	4053 DS17659	Digestive	to Chale 1999	Stomach tie Muscle	Primary Primary	Primary Primary	Endoderm Stomach Mesoderm Muscle_upper_limb_sk	Fetal Fetal	108D 108D	F	H23887 (		Biosample protocol	Experiment protocol	PE minElu PE minElu	te 80 9.2	7740000	A+Sucrose A+Sucrose	2011-01-05	19773828	0.3486 32414 0.5161 47003	4 32312
fLung R	Pulmonary devel.	ENCSR930AUG	ENCLB084VNX	ENCBS917VNB	ENCFF967ENB A	4G9021 LN4	4056 DS17670	Respiratory	oxeretal Musc	Lung	Primary	Primary	Endoderm Lung	Fetal	108D	F	H23887 1			Experiment protocol	PE minElu	te 60 9.9	6660000	A+Sucrose	2011-01-06	40324307	0.5457 92107	7 91957
fLung_L fAdrenal	Pulmonary devel.	ENCSR419MZH	ENCLB335XBB	ENCBS119WRO	ENCFF433SXX A ENCFF576KAO A	G9019 LN4	4058 DS17677	Respiratory Endocrine		Lung Adrenal Glan		Primary Primary	Endoderm Lung Mesoderm Adrenal	Fetal Fetal	108D 108D	F	H23887 1			Experiment protocol	PE minElu In-PE minElu	te 60 36.1	5 6000000	A+Sucrose A+Sucrose	2011-01-06 2011-01-06	21264511 27357799	0.6124 66020 0.3192 50517	7 50433
CD3 fLung L		ENCSR040DGJ	ENCLB942UEB	ENCBS653EZT	ENCFF067TIM A ENCFF706XXE A	AG9018 LN4	4061 DS17702	Hematopoieti Respiratory	c T-cell	Blood	Primary Primary	Primary Primary	Mesoderm Cord blood hematopoletic CD3+ Endoderm Lung	Neonatal	NB 91D	м	CB#1, 1/3/20 1	1 1	Biosample protocol	Experiment protocol		te 120 12.	5 4680000		2011-01-11	19786389 19700183	0.3916 33912 0.5429 54786	2 33838
fPlacenta		ENCSR989YIV I	ENCLB652QZG	ENCBS899TRC	ENCFF680YYR A	4G9015 LN4	4064 DS17744	Fetal Life Sup	port	Placenta	Primary	Primary	Endoderm Placenta	Fetal	91D	M	H23914 1		Biosample protocol	Experiment protocol	In-PE minElu	te 70 44.	2 7200000	A+Sucrose	2011-01-12	29561109	0.454 51500	51339
fintestine_Lg fKidney		ENCSR941DTJ	ENCLB134KGJ	ENCBS034SKE	ENCFF697IKO A	NG9012 LN4	4067 DS17753	Digestive Renal		Large Intestin Kidney	Primary	Primary Primary	Endoderm Intestine_Lg  Mesoderm Kidney	Fetal Fetal	91D 108D	M F	H23914 1		Biosample protocol	Experiment protocol	In-PE minElu	te 60 59.1	5 8970000	A+Sucrose A+Sucrose	2011-01-12 2011-01-13	22359210 31769247	0.5097 34635 0.4607 48331	1 48118
fKidney_renal_cort fKidney_renal_peh					ENCFF651PYP A ENCFF665EOG A			Renal Renal		Kidney	Primary Primary	Primary Primary	Mesoderm Kidney_renal_cortex Mesoderm Kidney_renal_pelvis	Fetal Fetal	91D 91D	M M	H23914 1			Experiment protocol  Experiment protocol	PE minElu In-PE minElu		3600000 7 7770000	A+Sucrose A+Sucrose	2011-01-13 2011-01-13	19776245 38898635	0.3792 33853 0.5063 63390	
fintestine_Sm		ENCSR594OWA	ENCLB369BPN	ENCBS623YHX	ENCFF149WBL A	4G9009 LN4		Digestive		Small Intestin		Primary	Endoderm Intestine_Sm	Fetal	91D	М	H23914 0			Experiment protocol	PE minElu	te 60 9.3	6790000	A+Sucrose	2011-01-13	22026246	0.481 47902	
fMuscle_back fintestine_Lg	Musculoskeletal Digestive	ENCSR133SPH I	ENCLB586ISH	ENCBS699KFK	ENCFF395JPZ A ENCFF851FOG A	4G9006 LN4		Musculoskele Digestive	etal Skeletal Musc	le Muscle Large Intestin		Primary Primary	Mesoderm Muscle_back Endoderm Intestine_Lg	Fetal Fetal	91D 120D	M F	H23914 1				PE minElu	te 60 13	6120000	A+Sucrose A+Sucrose	2011-01-13 2011-01-20	348976677 29095238	0.5563 227382 0.3742 56376	82 225627 5 56278
fKidney_renal_cort	Digestive.				ENCFF946POJ A ENCFF323DFW A			Renal Digestive		Kidney Small Intestin	Primary e Primary	Primary Primary	Mesoderm Kidney_renal_cortex Endoderm Intestine Sm	Fetal Fetal	120D 120D	F F	H23941 1			Experiment protocol  Experiment protocol	PE minElu In-PE minElu			A+Sucrose A+Sucrose	2011-01-20	29437186 65723305	0.4959 56873 0.3822 86981	3 56707 1 86748
fMuscle arm		ENCSR357PMV	ENCLB844WEN	ENCBS516CJQ	ENCFF159HRW A	AG9003 LN4	4083 DS17825	Musculoskele	etal Skeletal Musc	cle Muscle	Primary	Primary	Mesoderm Muscle_arm	Fetal	120D	F	H23941 1		Biosample protocol	Experiment protocol	In-PE minElu	te 80 23.5	5 6750000	A+Sucrose	2011-01-25	40208181	0.5289 61758	61515
			ENCLETOSWYL	ENCBS992XAC	ENCFF540GTE A	4G9002 LN4		Musculoskele	etal Skeletal Musc	de Muscle	Primary	Primary	Mesoderm Muscle trunk		120D	F	H23941 1		Biosample protocol	Experiment protocol	PE minElu	te 80 7.7	7380000	A+Sucrose	2011-01-25	30086984	0.5644 66655	5 66472
fMuscle_trunk fLung_R	Pulmonary devel.	ENCSR445XYW	ENCLB230BZS		ENCFF460HID A ENCFF196ZIZ A			Respiratory		Lung	Primary Primary	Primary Primary	Endoderm Lung Endoderm Lung	Fetal Fetal	98D	F	H23964 1	1		Experiment protocol  Experiment protocol  Experiment protocol	In-PE minElu PE minElu			A+Sucrose A+Sucrose	2011-01-25	71941716	0.5432 96833 0.5242 30080	

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Spending to The Spending to	DEC EXPERIENT	DCC LIBRAY.	DCC Blosson	DCC File ID	Estine Approve	get Littler Street Storet Recht	State	Organ	Blos Bridge 14	Biological st.	gart tayer Gueschilde	Store	kge K	Set Ethnicity	Danet D	Unique cellu	Spedin Ford Top of	CM of transfer to	Taked his time	Bry clean. Dries	d order Hoo	Hugeled Coulett	Library second	Resides useed	DEC SPOT ST. PARTHO
testine_Lg Digestive testine Sm Digestive	ENCSR796SJV ENCSR565EBN	ENCLB885IRR ENCLB204KUC	ENCBS867ILV ENCBS735OUX	ENCFF575ZQS ENCFF709VYF	S AG8999 LN P AG8998 LN	4087 DS17841 4088 DS17844	Digestive Digestive	Large Intestine Small Intestine	Primary Primary	Primary Primary	Endoderm Intestine_Lg Endoderm Intestine Sm	Fetal Fetal	98D 98D	F F	H23964 H23964	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	In-PE min8	Elute 60 Elute 50	25.7	8580000 A+Sucrose 7160000 A+Sucrose	2011-01-26 2011-01-26	80490260 36465125	0.5254 106912 0.4696 60970
luscie_arm luscie back Musculoskeletal			ENCBS054WKY ENCBS174IGM				Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc		Primary Primary	Primary Primary	Mesoderm Muscle_arm Mesoderm Muscle_back	Fetal Fetal	98D 98D	F	H23964 H23964	1	Biosample protocol	Experiment protocol  Experiment protocol	PE mină PE mină			3870000 A+Sucrose 7470000 A+Sucrose	2011-01-26	29629982 28536351	0.4963 57874 0.5617 64633
ymus	ENCSR541UPY	ENCLB759VWL	ENCBS948PMG	ENCFF050HC	Y AG8995 LN	4094 DS17875 DS1787	6 Hematopoletic	Blood	Primary	Primary Primary	Mesoderm Thymus	Fetal	98D	F	H23964	0	Biosample protocol	Experiment protocol	PE min8	Elute 80	4.1	7860000 A+Sucrose	2011-01-30	28298191	0.3548 43655 0.3548 70158
ymus imach 4 <b>Lymphold</b>	ENCSR208DMX	ENCLB162BKZ	ENCBS291NHF	ENCFF529RX	J AG8993 LN		Digestive	Blood Stomach	Primary Primary	Primary	Mesoderm Thymus Endoderm Stomach	Fetal	98D	F	H23964 H23964	1 1	Biosample protocol	Experiment protocol	PE min8	Elute 80	13.9	7860000 A+Sucrose 5660000 A+Sucrose	2011-01-28 2011-01-28	76560397 352606938	0.5457 241939
Lymphold 4			ENCBS473JVM ENCBS375RID				Hematopoietic T-cell	Blood	Primary Primary	Primary Primary	Mesoderm CD4 Mesoderm CD14	Adult Adult	37Y 37Y	M Hisp M Hisp	RO 01701 RO 01701	0 1		Experiment protocol  Experiment protocol	PE miné PE miné		1.7	5150000 Buffer A 8420000 Buffer A	2011-01-31	579433524 22897414	0.6346 136474 0.4395 50048
R Pulmonary devel.	ENCSR299INS	ENCLB054ALJ	ENCBS467PJB ENCBS143LJK	ENCFF337VN0	G AG8990 LN	4107 DS17954	Respiratory	Lung	Primary	Primary	Endoderm Lung	Fetal	105D	F	H24005 H24005	1		Experiment protocol	In-PE mini	Elute 60	40	5810000 A+Sucrose 8030000 A+Sucrose	2011-02-07	54899075 33762344	0.5952 86027
g_L mach	ENCSR119HXE	ENCLB398CUR	ENCBS878MRX	ENCFF701UC	E AG8988 LN	4109 DS17963	Respiratory Digestive	Lung Stomach	Primary Primary	Primary Primary	Endoderm Lung Endoderm Stomach	Fetal	105D 105D	F	H24005	1		Experiment protocol	In-PE min8	Elute 80	39.9	7020000 A+Sucrose	2011-02-07	30000609	0.517 53944 0.409 35496
stine_Lg			ENCBS383OVQ ENCBS363AAA				Digestive Hematopoletic T-cell	Large Intestine	Primary Primary	Primary Primary	Endoderm Intestine_Lg  Mesoderm T1 helper cells	Fetal Adult	105D 26Y	F	H24005 Wb33676984	0		Experiment protocol	In-PE mins			8730000 A+Sucrose 5310000 Buffer A	2011-02-08	28800737 271986078	0.4714 46017 0.4637 103501
Lymphold Cancer / epithelial	ENCSR000EQC	ENCLB592ZZZ	ENCBS070HZP	ENCFF756JDC	O AG5620 LN	4129 DS18018	Hematopoietic T-cell	Blood	Primary	Primary	Mesoderm T1 helper cells, induced	Adult	26Y	F	Wb33676984		Biosample protocol	Experiment protocol	In-PE min8	Elute 80	20.3	5220000 Buffer A	2011-02-09	362418796	0.4238 95329
Cancer / epithelial ER Cancer / epithelial						4130 DS18021 DS1826 4131 DS18025 DS1827		Mammary Mammary	Cancer	Cancer	Ectoderm Mammary gland adenocarcinoma  Ectoderm Breast carcinoma (treated with beta estrodiol)	Adult	69Y	F Cauc		0		Experiment protocol  Experiment protocol	In-PE min8			10000000	2011-02-09	77273673 73180365	0.5545 155466 0.5137 137690
ie_arm Musculoskeletal			ENCBS477CHZ ENCBS586CPQ				Hematopoietic Myeloid Musculoskeletal Skeletal Musci	Blood le Muscle	Primary Primary	Primary Primary	Mesoderm Human monocytes  Mesoderm Muscle_arm	Adult	32Y 105D	F	RO 01746 H24005	0 1		Experiment protocol	In-PE min8			5720000 Buffer A 8000000 A+Sucrose	2011-02-11	77361215 82737466	0.5214 89125 0.5174 107603
e_back Musculoskeletal	ENCSR033STL	ENCLB755ECQ	ENCBS345TTL	ENCFF798DDI	P AG8985 LN	4137 DS18083	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle back	Fetal	105D	F	H24005	1	Biosample protocol	Experiment protocol	In-PE min8	Elute 80	38.9	5250000 A+Sucrose	2011-02-14	88413703	0.5409 117804
y_renal_pelv Tissue invariant L Pulmonary devel.			ENCBS142XDW ENCBS587TEK				Renal Respiratory	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney_renal_pelvis Endoderm Lung	Fetal Fetal	105D 115D	F M	H24005 H23640	0	Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol	In-PE min8			5240000 A+Sucrose 12750000 A+Sucrose	2011-02-14	21508657 88248559	0.3329 33678 0.678 142545
e_lower_limbMusculoskeletal	ENCSR385AMY	ENCLB998MCS	ENCBS105LQM ENCBS949POW	ENCFF446DJH	H AG8982 LN	4149 DS18174	Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_lower_limb Mesoderm Muscle_arm	Fetal	120D	м	H24042 H24042	1		Experiment protocol  Experiment protocol	In-PE mins	Elute 80	19.8	5880000 A+Sucrose	2011-02-22	78281068 41199979	0.5886 102969 0.4247 63661
e_arm	ENCSR000EMJ	ENCLB425ZZZ	ENCBS483ENC	ENCFF358XBH	H AG4048 LN	4156 DS18208	Hematopoietic Lymphoid	Blood	Primary	Primary	Mesoderm B cells	Adult	43Y	F Cauc	RO 01835	1 1		Experiment protocol	In-PE min8	Elute 120	40.3	7320000 Buffer A	2011-02-25	233037503	0.5824 101453
ibroblasts Stromal B						4158 DS18224 DS1822 4159 DS18229 DS1822		Skin Skin	Primary	Primary Primary	Mesoderm Skin_Fibroblasts Mesoderm Skin_Fibroblasts	Neonatal Neonatal	neonatal neonatal	M M	Skin 01 Skin 01	0		Experiment protocol	In-PE mins			9250000 PBS+A 7440000 PBS+A	2011-02-28	355540191 51710143	0.7075 289819 0.7075 125809
broblasts Stromal A broblasts	ENCSR251UPG	ENCLB194ZVW	ENCBS612XXS	ENCFF221VRS	S AG8978 LN	4163 DS18252 DS1825	6 Connective	Skin	Primary	Primary	Mesoderm Skin_Fibroblasts	Neonatal	neonatal	м	Skin 02	0	Biosample protocol	Experiment protocol	PE min8		18	8780000 PBS+A	2011-03-02	29877887	0.77 94268
	ENCSR000EPH	ENCLB550ZZZ	ENCBS616ENC	ENCFF005UTF	F AG4047 LN	4164 DS18256 DS1825 4168 DS18267 DS1803	1 Integumentary	Skin Mammary	Primary Cancer	Primary Cancer	Mesoderm Skin_Fibroblasts  Ectoderm Mammary gland adenocarcinoma	Neonatal Adult	neonatal 69Y	M F Cauc	Skin 02	1	Biosample protocol	Experiment protocol  Experiment protocol	In-PE min8	Elute 100	26	9660000 PBS+A 10000000	2011-03-02 2011-03-02	37057230 31925109	0.77 97596 0.6935 98105
Cancer / epithelial			ENCBS037ENC ENCBS136SDO			4170 DS18271 DS1802	5 Integumentary Musculoskeletal Skeletal Musc	Mammary le Muscle	Cancer	Cancer	Ectoderm Mammary gland adenocarcinoma (treated with Mesoderm Muscle back	Eetal	69Y	F Cauc	H24078	1		Experiment protocol Experiment protocol	In-PE mins			10000000 5300000 A+Sucrose	2011-03-02	44849860 29206599	0.6608 122349 0.3892 37529
arm arm	ENCSR956NOL	ENCLB977RMY	ENCBS261IIB	ENCFF364CX	O AG8975 LN	4252 DS18379	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_arm	Fetal	127D	м	H24078	1	Biosample protocol	Experiment protocol	TS min8	Elute 80	24.2	3330000 A+Sucrose	2011-03-07	19386603	0.3858 21784
s _leg	ENCSR622CAH	ENCLB170YEF		ENCFF56500	C AG8973 LN		Hematopoietic T-cell Musculoskeletal Skeletal Musc	Blood le Muscle	Primary Primary	Primary Primary	Mesoderm Thymus Mesoderm Muscle_leg	Fetal Fetal	127D 127D	M M	H24078 H24078	1		Experiment protocol	In-PE min8		10.2	8160000 A+Sucrose 5260000 A+Sucrose	2011-03-08 2011-03-08	82616244 25756267	0.3709 64196 0.601 58422
ch R	ENCSR608AHQ	ENCLB281EIZ	ENCBS159PIU ENCBS421OZO	ENCFF062XZJ	J AG8972 LN	4255 DS18389	Digestive Respiratory	Stomach Lung	Primary Primary	Primary Primary	Endoderm Stomach Endoderm Lung	Fetal Fetal	127D 96D	м	H24078 H24089	1	Biosample protocol	Experiment protocol  Experiment protocol	In-PE min8	Elute 80	18.7	4140000 A+Sucrose 5360000 A+Sucrose	2011-03-08	29924057 42142736	0.3687 39430 0.4003 59547
L	ENCSR639XWF	ENCLB768HDS	ENCBS516MKG	ENCFF995EJE	AG8970 LN	4267 DS18421	Respiratory	Lung	Primary	Primary	Endoderm Lung	Fetal	96D	M	H24089	1	Biosample protocol	Experiment protocol	TS min8	Elute 60	22.5	8000000 A+Sucrose	2011-03-14	38748464	0.5152 61231
/_renal_corb /_renal_pelv			ENCBS653WIT ENCBS266YGB				Renal	Kidney	Primary	Primary	Mesoderm Kidney Mesoderm Kidney	Fetal	127D	M M	H24078	1		Experiment protocol	TS mins	Elute 70 Flute 60	65.4	5480000 A+Sucrose	2011-03-14	38754907 30693223	0.311 38545 0.3326 34103
:			ENCBS090LBL	ENCFF086QZU	U AG8967 LN	4271 DS18438 DS1840	6 Epithelial	Mammary	Primary	Primary	Ectoderm vHMEC	Adult			RM035	0	Biosample protocol	Experiment protocol			47.5	5560000 PBS+A	2011-03-15	25312062	0.5219 63372
e_arm e_back			ENCBS655AMM ENCBS630IBZ	ENCFF687RPV	W AG8965 LN		Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc	le Muscle le Muscle	Primary Primary	Primary Primary	Mesoderm Muscle_arm Mesoderm Muscle_back	Fetal	96D 96D	M M	H24089 H24089	1		Experiment protocol	TS mins		19.4	4950000 A+Sucrose 5310000 A+Sucrose	2011-03-16	38340347 31343341	0.3526 42499 0.4715 51524
_leg _R	ENCSR059LXL	ENCLB805KFK	ENCBS517FUR ENCBS697UKL	ENCFF282ZBF	H AG8964 LN	4279 DS18456	Musculoskeletal Skeletal Musc Renal	le Muscle Kidney	Primary Primary	Primary Primary	Mesoderm Muscle_leg Mesoderm Kidney	Fetal	96D 96D	M	H24089 H24089	0		Experiment protocol	TS mins			5850000 A+Sucrose 5400000 A+Sucrose	2011-03-17	37267414 37549811	0.3649 43018 0.3214 39971
L	ENCSR184DFF	ENCLB028AOF	ENCBS610XAP	ENCFF607CZV	W AG8962 LN	4281 DS18466	Renal	Kidney	Primary	Primary	Mesoderm Kidney	Fetal	96D	м	H24089	1	Biosample protocol	Experiment protocol	TS min8	Elute 70	45.8	7700000 A+Sucrose	2011-03-18	35118095	0.3697 39868
_back _leg			ENCBS645HGQ ENCBS023IXF				Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc		Primary Primary	Primary Primary	Mesoderm Muscle_back Mesoderm Muscle_leg	Fetal	105D 105D	M M	H24111 H24111	1		Experiment protocol  Experiment protocol		Elute 30 Elute 80		5250000 A+Sucrose 5220000 A+Sucrose	2011-03-18	31936987 33844982	0.502 44281 0.516 43930
_arm	ENCSR949JYS	ENCLB217KTX	ENCBS017GIN ENCBS117CVU	ENCFF366WN	A AG8959 LN	4284 DS18473	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_arm	Fetal	105D	м	H24111	0	Biosample protocol	Experiment protocol	TS min8	Elute 100	36.5	3780000 A+Sucrose 5680000 A+Sucrose	2011-03-18	35396641	0.3621 35916 0.526 68975
			ENCBS117CVU ENCBS122USS				Respiratory Respiratory	Lung	Primary Primary	Primary Primary	Endoderm Lung Endoderm Lung	Fetal	105D 105D	M M	H24111 H24111	0	Biosample protocol	Experiment protocol	TS min8			10540000 A+Sucrose	2011-03-22	46622799 38834905	0.5298 60865
ne_Lg _cord	ENCSR666YVE ENCSR148MFM	ENCLB932ALS ENCLB294ZTA	ENCBS851SYD ENCBS300UPT	ENCFF039GJA	V AG8955 LN U AG8954 LN	4295 DS18499 4296 DS18501	Digestive Nervous	Large Intestine Spinal Cord	Primary Primary	Primary Primary	Endoderm Intestine_Lg  Ectoderm Spinal_cord	Fetal Fetal	105D 105D	M M	H24111 H24111	0	Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 60 Elute 100	45.8 12.6	4810000 A+Sucrose 5760000 A+Sucrose	2011-03-24	35140454 40845620	0.301 28583 0.3683 37223
_renal_corb	ENCSR588JXI	ENCLB649FHR	ENCBS674SNK ENCBS180R7G	ENCFF282TQ	C AG8951 LN	4313 DS18542	Renal	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney renal cortex L	Fetal	105D	м	H24111 H24125	0	Biosample protocol	Experiment protocol		Elute 60 Flute 80	25.3	4410000 A+Sucrose	2011-03-25	37943660 25169765	0.3568 37473 0.4966 43489
e_arm felanocytes	ENCSR4340BM	ENCLB256YWS	ENCBS425NOG	ENCFF899ZLK	C AG8949 LN	4335 DS18601 DS1856		le Muscle Skin	Primary	Primary	Mesoderm Muscle_arm  Ectoderm Skin_Melanocytes	Neonatal	neonatal	M	Skin 01	0	Biosample protocol	Experiment protocol  Experiment protocol	TS min8	Elute 120	20.3	5720000 PBS+A	2011-03-29	42180617	0.4966 43489 0.5569 85386
503D 503D						4346 DS18637 DS1864 4347 DS18640 DS1863		Skin	Primary Primary	Primary Primary	Mesoderm Fibroblast Mesoderm Fibroblast	Adult Adult	31Y 31Y	F Cauc	Family # 731 Family # 731		Biosample protocol	Experiment protocol  Experiment protocol	TS mins			5620000 PBS+A 5450000 PBS+A	2011-04-04	34450442 24220734	0.661 77570 0.6406 52692
_renal_pelv	ENCSR761ZFA	ENCLB255VJZ	ENCBS935VKR	ENCFF704UAL	L AG8948 LN	4358 DS18663	Renal	Kidney	Primary	Primary	Mesoderm Kidney	Fetal	105D	M	H24111	1	Biosample protocol	Experiment protocol	TS min8	Elute 60	27.4	3900000 A+Sucrose	2011-04-05	31681568	0.4555 48316
/_renal_pelv felanocytes			ENCBS257BTU ENCBS916SKO			4359 DS18666 4360 DS18668 DS1966	Renal 2 Integumentary	Kidney Skin	Primary Primary	Primary Primary	Mesoderm fKidney  Ectoderm Skin_Melanocytes	Fetal Neonatal	105D neonatal	м	H24111 Skin 02	0	Biosample protocol  Biosample protocol	Experiment protocol	TS min8	Elute 60 Elute 80		4770000 A+Sucrose 11450000 PBS+A	2011-04-05	28413374 32632314	0.442 37221 0.3337 78398
eratinocytes eratinocytes	ENCSR035RVH	ENCL B743XEL	ENCRS293IRA	<b>ENCERSOTVE</b>	R AGR945 IN	4367 DS18695 DS1869 4373 DS18714 DS1879	2 Integumentary	Skin	Primary	Primary	Endoderm Skin_Keratinocytes	Neonatal	neonatal	м	Skin 01	0		Experiment protocol  Experiment protocol	TS mins	Elute 120		5850000 PBS+A 5430000 PBS+A	2011-04-07	30701650	0.5817 72006 0.5544 62730
Keratinocytes	ENCSR724CND	ENCLB305MIW	ENCBS773VQF	ENCFF785TDT	T AG8943 LN	4374 DS18718 DS1871	4 Integumentary	Skin	Primary	Primary	Endoderm Skin_Keratinocytes	Neonatal	neonatal	M	Skin 02	0		Experiment protocol	TS mins		48.2	5360000 PBS+A	2011-04-07	35200561	0.5544 75938
doderm			ENCBS084NIJ ENCBS716QQK			4376 DS18732 DS1931 4388 DS18821	0 Embryonic Digestive	Germ Stomach	Lines	ESC Primary	Primitive Mesendoderm Endoderm Stomach	Embryoni	101D	U	H1P28 H24125	0		Experiment protocol  Experiment protocol	TS min8			5090000 Buffer A 5040000 A+Sucrose	2011-04-08	22910870 34744227	0.5299 29948 0.3068 34449
e_back e_leg	ENCSR106RBR	ENCLB887CHS	ENCBS020XIW ENCBS003JOU	ENCFF895NTV	W AG8938 LN	4392 DS18842	Musculoskeletal Skeletal Musc Musculoskeletal	le Muscle Muscle	Primary	Primary Primary	Mesoderm Muscle_back Mesoderm Muscle leg	Fetal	115D	F	H24143 H24143	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 80		5840000 A+Sucrose 3780000 A+Sucrose	2011-04-21	28728695 20832621	0.4188 41047 0.323 22788
_renal_corb	ENCSR887BNC	ENCLB048XRX	ENCBS183TBX	ENCFF300WF	S AG8935 LN	4408 DS18928	Renal	Kidney	Primary	Primary	Mesoderm Kidney	Fetal	120D	M	H24169	0	Biosample protocol	Experiment protocol	TS min8	Elute 60	21.6	5270000 A+Sucrose	2011-05-03	29520680	0.3929 40835
renal_corb			ENCBS281CNH ENCBS796DWQ				Renal	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney Mesoderm Testes	Fetal	120D 113D,115D	M	H24169 H24198+H23	0	Biosample protocol	Experiment protocol  Experiment protocol	TS mins			5300000 A+Sucrose 5760000 A+Sucrose	2011-05-03	23443402 27478973	0.416 32963
renal_pelv Tissue invariant	ENCSR540PVZ	ENCLB220BDZ	ENCBS855RFN	ENCFF950VYF	F AG8932 LN	4423 DS18961	Renal	Kidney	Primary	Primary	Mesoderm Kidney	Fetal	120D	м	H24169	1	Biosample protocol	Experiment protocol	TS min8	Elute 65	18.3	5960000 A+Sucrose	2011-05-05	25829289	0.4315 43496
renal_pelv Tissue invariant 04A Stromal A	ENCSR320SVK ENCSR000EMP	ENCLB068YPZ ENCLB432ZZZ	ENCBS226ZND ENCBS016ENC	ENCFF210JHA	T AG8931 LN A AG4043 LN	4424 DS18964 4427 DS18973 DS1897	Renal 5 Connective	Kidney Skin	Primary Primary	Primary Primary	Mesoderm Kidney Mesoderm Fibroblast	Fetal Adult	120D 31Y	M Cauc	H24169 Family # 731	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 60 Elute 160	14.3	5900000 A+Sucrose 7020000 PBS+A	2011-05-05	29979756 32704847	0.3758 43121 0.7541 88102
I4A arm	ENCSR000EMP	ENCLB433ZZZ	ENCBS388KHM ENCBS433BGH	ENCFF387VJG	3 AG4042 LN	4428 DS18975 DS1897	3 Connective Musculoskeletal Skeletal Musc	Skin le Muret	Primary	Primary Primary	Mesoderm Fibroblast Mesoderm Muscle arm	Adult	31Y	F Cauc	Family # 731	0		Experiment protocol Experiment protocol	TS mins		21.2	7180000 PBS+A 8190000 A+Surrose	2011-05-09	33363552	0.7318 89678 0.3605 28008
arm	ENCSR270LZE	ENCLB237FGZ	ENCBS604DHW	ENCFF935QGI	B AG8929 LN	4445 DS19051	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_arm	Fetal	113D	м	H24198	1	Biosample protocol	Experiment protocol	TS min8	Elute 100	26.2	4410000 A+Sucrose	2011-05-12	25671047	0.3402 28533
arm leg	ENCSR033DQS	ENCLB569ADS	ENCBS980APB ENCBS947JRD	ENCFF149YJX	K AG8926 LN	4468 DS19115	Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc		Primary Primary	Primary Primary	Mesoderm Muscle_arm Mesoderm Muscle_leg	Fetal Fetal	96D 96D	M M	H24218 H24218	0	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 100 Elute 80	29	3500000 A+Sucrose 5030000 A+Sucrose	2011-05-12	32907287 31111731	0.3534 36716 0.4275 47474
back	ENCSR295ELC	ENCLB370TUO	ENCBS897YOR	ENCFF589GPI	U AG8925 LN	4469 DS19117	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_back	Fetal	96D 96D	м	H24218	0	Biosample protocol	Experiment protocol	TS min8	Elute 80	13.5	2700000 A+Sucrose	2011-05-18	35542022	0.3664 33795
ro_back ro_back	ENCSR067XUN	ENCLB903VKT	ENCBS336CDQ	ENCFF695QK	G AG8922 LN			Skin Skin	Primary Primary	Primary Primary	Mesoderm Skin_fibro_back Mesoderm Skin_fibro_back	Fetal Fetal	96D	M	H24218 H24218	0	Biosample protocol		TS min8	Elute 160	24.8	9680000 PBS+A 13120000 PBS+A	2011-05-24 2011-05-25	242982733 30502874	0.6782 239511 0.6782 85027
renal_pelv renal_pelv	ENCSR986HEN ENCSR988IRI	ENCLB900API	ENCBS8270FK ENCBS754ANY	ENCFF166QDI	D AG8921 LN	4491 DS19235 4492 DS19238	Renal	Kidney	Primary	Primary	Mesoderm Kidney_renal_pelvis_R Mesoderm Kidney_renal_pelvis_L	Fetal	105D 105D	M M	H24232 H24232	0		Experiment protocol  Experiment protocol		Elute 60		5900000 A+Sucrose	2011-05-25	29285437	0.3721 47353 0.483 47624
renal_cort	ENCSR268QCH	ENCLB234NXN	ENCBS818WCN	ENCFF760XW	X AG8919 LN		Renal	Kidney	Primary	Primary	Mesoderm Kidney renal cortex R	Fetal	105D	м	H24232	1	Biosample protocol	Experiment protocol	TS min8	Elute 60	16.7	5710000 A+Sucrose	2011-05-31	27338258	0.5307 46303
enal_corb arm	ENCSR303YII	ENCLB307GSJ	ENCBS636QOC ENCBS892WJE	ENCFF948ISX	AG8917 LN		Renal Musculoskeletal Skeletal Musc	Kidney le Muscle	Primary Primary	Primary Primary	Mesoderm Kidney_renal_cortex_L Mesoderm Muscle_arm	Fetal	105D 96D	M M	H24232 H24244	1		Experiment protocol  Experiment protocol		Elute 60 Elute 100	7.3	5750000 A+Sucrose 4050000 A+Sucrose	2011-05-31	31905465 32846465	0.5349 55648 0.4938 58722
leg Musculoskeletal upper_bax			ENCBS099OIO ENCBS479AOA				Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle_leg Mesoderm Muscle_upper_back	Fetal	96D 96D	м	H24244 H24244	1		Experiment protocol	TS mins			5300000 A+Sucrose	2011-06-01	47461180 29564149	0.5565 79692 0.4184 34487
leg	ENCSR294QCR	ENCLB123BGQ	ENCBS143XQJ	ENCFF451HEF	P AG8913 LN	4510 DS19291	Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary	Mesoderm Muscle Jeo	Fetal	97D	M	H24259	1	Biosample protocol	Experiment protocol	TS min8	Elute 60	14.4	5040000 A+Sucrose	2011-06-03	25614262	0.5248 52107
derm Primitive / embryo	ENCSR649PJN onic ENCSR714DIF	ENCLB736PUY ENCLB903DZR	ENCBS973IDY ENCBS084NIJ	ENCFF170VCF ENCFF049BD0		4511 DS19295 4515 DS19310 DS1873	Musculoskeletal Skeletal Musci 2 Embryonic	le Muscle Germ	Primary Lines	Primary ESC	Mesoderm Muscle_arm Primitive Mesendoderm	Fetal Embryoni	97D	м	H24259	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 80	14.1	5500000 A+Sucrose 5970000 Buffer A	2011-06-06	24892183 270380677	0.5263 45485 0.5299 280673
arm		ENCLB379MQL	ENCBS219ZEK	ENCFF636GHI	I AG8910 LN	4520 DS19380	Musculoskeletal Skeletal Musc		Primary	Primary	Mesoderm Muscle_arm	Fetal	85D	F	H24272	1	Biosample protocol	Experiment protocol				5840000 A+Sucrose	2011-06-07	31785183	0.5176 58508
ack enal_pelv	ENCSR364TKL	ENCLB086BKE	ENCBS825MQT ENCBS785KTZ	ENCFF633IIO	AG8908 LN	4523 DS19386	Musculoskeletal Skeletal Musc Renal	le Muscle Kidney	Primary Primary	Primary Primary	Mesoderm Muscle_back Mesoderm Kidney_renal_pelvis	Fetal Fetal	85D 97D	F M	H24272 H24259	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 80 Elute 60		5130000 A+Sucrose 4410000 A+Sucrose	2011-06-10	33193087 25427379	0.552 61880 0.4476 41133
enal_cort Tissue invariant	ENCSR550UWM	ENCLB641KWQ	ENCBS026RJE ENCBS755ISG	ENCFF555RFE	D AG8907 LN	4524 DS19388	Renal Fetal Life Support	Kidney Placenta	Primary Primary	Primary Primary	Mesoderm Kidney_renal_cortex Endoderm Placenta	Fetal	97D 85D	м	H24259 H24272	1	Biosample protocol	Experiment protocol	TS miné	Elute 60	11 (	5660000 A+Sucrose 4560000 A+Sucrose	2011-06-13	20988773 34069627	0.6053 43959 0.5477 84669
a Placental / trophot Cardiac	ENCSR392GCE	ENCLB150PDN	ENCBS172XKB	ENCFF290HB0	O AG8905 LN	4528 DS19427	Cardiovascular Cardiac	Heart	Primary	Primary	Mesoderm Heart	Fetal	120D	M	H24042	1	Biosample protocol Biosample protocol	Experiment protocol	TS min8	Elute 80	22.7	7280000 A+Sucrose	2011-06-15	40109410	0.6327 86932
Cardiac	ENCSR064GBK	ENCLB629CQG	ENCBS407ALA ENCBS984JKS	ENCFF090RTE	B AG8904 LN	4529 DS19431	Cardiovascular Cardiac Musculoskeletal Skeletal Musc	Heart In Murcin	Primary Primary	Primary Primary	Mesoderm Heart Mesoderm Muscle leg	Fetal	91D	F	H23744 H24279	1	Biosample protocol	Experiment protocol	TS mins			4590000 A+Sucrose 7290000 A+Sucrose	2011-06-15	37454064 36848570	0.6242 74897 0.5389 73475
leg Musculoskeletal back	ENCSR174GXG	ENCLB276NVX	ENCBS136EGD	ENCFF852MJY	Y AG8902 LN	4533 DS19441	Musculoskeletal Skeletal Musc		Primary	Primary	Mesoderm Muscle_back	Fetal	101D 101D	M	H24279	1	Biosample protocol	Experiment protocol	TS min8	Elute 100	25.8	4050000 A+Sucrose	2011-06-20	27952050	0.5195 52039
ro_scalp ro_scalp Stromal B	ENCSR360LBD ENCSR770DEN	ENCLB613QNN ENCLB972ZRN	ENCBS890NFL ENCBS180EDA	ENCFF451CDI ENCFF095PIL	H AG8901 LN J AG8900 IN	4534 DS19444 DS1944 4535 DS19449 DS1944	9 Connective 4 Connective	Skin Skin	Primary Primary	Primary Primary	Mesoderm Skin_fibro_scalp  Mesoderm Skin_fibro_scalp	Fetal Fetal	97D 97D	M M	H24259 H24259	0	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS mins	Elute 80 Elute 80		12600000 PBS+A 10600000 PBS+A	2011-06-20	25393646 272413636	0.6399 76778 0.7053 241689
bro_abdom Stromal A	ENCSR176KYD	ENCLB847WYZ	ENCBS405WVO	ENCFF360WB	V AG8899 LN	4586 DS19558 DS1956	1 Connective	Skin	Primary	Primary	Mesoderm Skin_fibro_abdomen	Fetal	97D	м	H24259	0		Experiment protocol	TS min8	Elute 120	26.7	9700000 PBS+A	2011-06-28	32822395	0.4626 76630
bro_abdom <mark> Stromal B</mark> e_leg	ENCSR861NUH	ENCLB340MIB	ENCBS841QUZ	ENCFF025UIS	AG8897 LN		Musculoskeletal Skeletal Musc		Primary Primary	Primary Primary	Mesoderm Skin_fibro_abdomen  Mesoderm Muscle_leg	Fetal Fetal	97D 104D	M	H24259 H24297	1		Experiment protocol  Experiment protocol	TS min8	Elute 80	16.9	18600000 PBS+A 5990000 A+Sucrose	2011-07-01	265470134 27853503	0.618 235278 0.5248 52756
le_arm le_back	ENCSR951XEN	ENCLB669FYE	ENCBS474LPU ENCBS152UTM	ENCFF341QFV	V AG8896 LN	4608 DS19646	Musculoskeletal Skeletal Musc Musculoskeletal Skeletal Musc	le Muscle	Primary	Primary Primary	Mesoderm Muscle_arm Mesoderm Muscle_back	Fetal	104D	M	H24297 H24297	1	Biosample protocol	Experiment protocol Experiment protocol		Elute 100	25.8	5840000 A+Sucrose 5760000 A+Sucrose	2011-07-01	28747559 67804941	0.3931 43970 0.527 120000
	ENUSR141NSQ				D AG8895 LN B AG8894 LN		Musculoskeretal Skeletal Musc	e Muscle	Primary	Primary	Mesoderm Muscle_back  Mesoderm Skin fibro upper back	retal	104D	M	H24297		piosampie protocol	expenment protocol	15 mini	crute 100	25.8	oreduuu A+Sucrose	2011-07-05	67804941	0.527 120006 0.5771 73562

J. Agreet	all the second		geb		nation ID	in then	and the second										s condition to Joseph	and the control of th	attob at	int	de ked Indi	agilet /ark	and lose		core
September 18	CC Exterior	-Cc Ipund,	CC Blosson	-CC File ID	. Blue Angless . Blue L	Brack Blooder and State	Jacket Jacket Jacket	argan.	Tuge Bright 191	a kalonije ali side	Mariade Mariade	- Contr	, de	att dankits	- OFFOR ED	relative cellul.	and in Florida Date of the State of the Stat	Sparrage de	Dreft William Dreft Cheefe	THE OWNER OF THE OWNER OWNER OF THE OWNER	A Hudden John County and Real Prince	Street second	and upped	-cc spot	and and
Skin_fibro_upper_ Stromal B	ENCSR325LYJ	ENCLB041IUQ	ENCBS696WUI	ENCFF854VZE	AG8893 LN463	2 DS19706 DS20056	Connective	Skin	Primary	Primary	Mesoderm Skin_fibro_upper_back	Fetal	97D	M	H24259	1	Biosample protocol	Experiment protocol	TS minElute	80 4.6	19400000 PBS+A	2011-07-08	275786816	0.6997	2521
Skin fibro bicep i Stromal B Skin fibro bicep i Stromal A	ENCSR587STM	ENCLB416LXU	ENCBS318GXE	ENCFF690LLL	AG8891 LN464	4 DS19745 DS19761 7 DS19761 DS19745	Connective Connective	Skin	Primary Primary	Primary Primary	Mesoderm Skin_fibro_bicep_R Mesoderm Skin_fibro_bicep_R	Fetal Fetal	97D 97D	M	H24259 H24259	0	Biosample protocol	Experiment protocol  Experiment protocol	TS minElute	80 13.4 100 23.9	15600000 PBS+A 7680000 PBS+A	2011-07-14 2011-07-14	338904329 30688937	0.6878 0.6878	2542 8519
T_47D T_47D	ENCSR000EQB ENCSR000EQB	ENCLB589ZZZ ENCLB590ZZZ	ENCBS805DMB ENCBS440ENC	ENCFF958YJM ENCFF283RRA	AG4041 LN465 AG5619 LN465	5 DS19790 DS19794 6 DS19794 DS19790	Integumentary Integumentary	Mammary Mammary	Cancer	Cancer	Ectoderm human epithelial cell line derived from an mam Ectoderm human epithelial cell line derived from an mam	nm Adult nm Adult	54Y 54Y	F F		1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	120 30.8 80 44.9	15840000 PBS+A 21840000 PBS+A	2011-07-15	35936743 253903931	0.5536 0.5805	1800
Skin fibro bicep ( Skin fibro bicep (						3 DS19857 DS19867 5 DS19867 DS19857	Connective	Skin	Primary	Primary Primary	Mesoderm Skin_fibro_bicep_L	Fetal	97D	M	H24259	0	Biosample protocol	Experiment protocol	TS minElute	80 7.1	16400000 PBS+A	2011-07-21	28915533	0.6151	798
kin fibro leg R	ENCSR217RVH	ENCLB060NCB	ENCBS814ABX	ENCFF164BRY	AG8888 LN469	0 DS19943 DS19948	Connective Connective	Skin	Primary	Primary Primary	Mesoderm Skin_fibro_bicep_L Mesoderm Skin_fibro_leg_R_quad	Fetal	97D 97D	M	H24259 H24259	1	Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	80 15.7 80 21.8	16400000 PBS+A 15100000 PBS+A	2011-07-21	26227215 247806344	0.6254 0.5841	750 216
in_fibro_leg_R_Stromal A dney_renal_corb			ENCBS814ABX ENCBS657UUF			1 DS19948 DS19943	Connective	Skin Kidnev	Primary Primary	Primary Primary	Mesoderm Skin_fibro_leg_R_quad Mesoderm Kidney_renal_cortex	Fetal	97D 96D	M	H24259 H24342	0		Experiment protocol  Experiment protocol	TS minElute TS minElute	80 14.7 60 15	16100000 PBS+A 3550000 A+Sucrose	2011-07-26	41945327 29912961	0.5841 0.5394	100
idney_renal_pelv	ENCSR606UAR	ENCLB865BOU	ENCBS930TET	ENCFF187MJI	AG8885 LN470	6 DS20022	Renal	Kidney	Primary	Primary	Mesoderm Kidney_renal_pelvis	Fetal	96D	F	H24342	0	Biosample protocol	Experiment protocol	TS minElute	70 13.5	3300000 A+Sucrose	2011-08-01	35849066	0.5109	609
iney_renal_corb iney_renal_pelv			ENCBS732UXU ENCBS051JUB			7 DS20024 8 DS20027	Renal Renal	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney_renal_cortex Mesoderm Kidney_renal_pelvis	Fetal Fetal	96D 96D	F	H24365 H24365	1		Experiment protocol  Experiment protocol	TS minElute TS minElute	60 7.6 60 8.7	2800000 A+Sucrose 5600000 A+Sucrose	2011-08-01	30741084 22009864	0.5551 0.5225	549 418
in_fibro_leg_L_cStromal A			ENCBS675BHK			1 DS20046 2 DS20056 DS19706	Connective Connective	Skin	Primary	Primary Primary	Mesoderm Skin_fibroblast	Fetal	97D 97D	м	H24259 H24259	1	Biosample protocol	Experiment protocol		80 29.5 80 14.4	14000000 PBS+A 18000000 PBS+A	2011-08-04	35965569 37597327	0.6619	963
n_fibro_leg_L_c <mark>Stromal A</mark> ites	ENCSR729DRB	ENCLB169OXT	ENCBS626EOQ	ENCFF537ICV	AG8879 LN474	9 DS20170	Genitourinary	Skin Gonad	Primary Primary	Primary	Mesoderm Skin_fibro_leg_L_quad  Mesoderm Testes	Fetal	97D Pooled	M	H23914+H24	1	Biosample protocol	Experiment protocol  Experiment protocol		80 14.4 60 8.9	18000000 PBS+A 3330000 A+Sucrose	2011-08-04	37597327 38702549	0.6201	652
n n			ENCBS187SSL ENCBS403FLZ				Nervous Nervous	Brain Brain	Primary Primary	Primary Primary	Ectoderm Brain Ectoderm Brain	Fetal	101D 104D	M M	H24279 H24297	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	60 13 60 15.1	6180000 A+Sucrose 5520000 A+Sucrose	2011-08-18	31912335 35138969	0.4497	60 95
n			ENCBS681TPB				Nervous	Brain	Primary	Primary	Ectoderm Brain	Fetal	109D	F	H24381	1	Biosample protocol	Experiment protocol	TS minElute	60 18	5400000 A+Sucrose	2011-08-18	29731716	0.4616	593
cle_leg Musculoskeletal cle_trunk Musculoskeletal			ENCBS697VMI ENCBS390NDG				Musculoskeletal Skeletal Mus Musculoskeletal Skeletal Mus		Primary Primary	Primary Primary	Mesoderm Muscle_leg Mesoderm Muscle trunk	Fetal Fetal	113D 113D	F	H24409 H24409	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	80 10 100 25.1	5450000 A+Sucrose 6750000 A+Sucrose	2011-08-19	367468404 375675884	0.614 0.5311	296
ie_back Muscle	ENCSR010ZMK	ENCLB435GJF	ENCBS769NYE ENCBS008QPC	ENCFF988XRU	AG8873 LN477-	4 DS20244	Musculoskeletal Skeletal Mus Musculoskeletal Skeletal Mus		Primary	Primary Primary	Mesoderm Muscle_back Mesoderm Psoas Muscle	Fetal	113D	F	H24409 STL001	1	Biosample protocol	Experiment protocol	TS minElute TS minElute	100 27.6 50 8.7	8100000 Buffer A 5940000 A+Sucrose	2011-08-22	32589769 313887682	0.5036	630
mus	ENCSR682PKY	ENCLB486RLM	ENCBS620MUO	ENCFF385IKK	AG8871 LN480	2 DS20335	Hematopoietic T-cell	Blood	Primary Primary	Primary	Mesoderm Thymus	Fetal	3Y 108D	м	H24401	1	Biosample protocol	Experiment protocol	TS minElute	60 21	6930000 A+Sucrose	2011-08-29	30309170	0.3966	474
mus Lymphold			ENCBS500WIH ENCBS338LYQ				Hematopoletic T-cell Endocrine	Blood Adrenal Gland	Primary Primary	Primary Primary	Mesoderm Thymus Mesoderm Adrenal	Fetal Fetal	113D 113D	F	H24409 H24409	1 1	Biosample protocol	Experiment protocol	TS minElute TS minElute	60 24.1 60 48.8	8010000 A+Sucrose 9400000 A+Sucrose	2011-08-30	263615272 34706677	0.3966	12
nach Tissue invariant	ENCSR726YMS	ENCLB258VOK	ENCBS234ICC	ENCFF431DWM	AG8868 LN480	6 DS20349	Digestive	Stomach	Primary	Primary	Endoderm Stomach	Fetal	108D	M	H24401	1	Biosample protocol	Experiment protocol	TS minElute	80 14.4	5940000 A+Sucrose	2011-08-31	30613792	0.3861	45
al_cord Neural ey renal pely Organ devel. / rena			ENCBS419ZMB ENCBS166PBJ				Nervous Renal	Spinal Cord Kidney	Primary Primary	Primary Primary	Endoderm Spinal_cord Mesoderm Kidney renal pelvis	Fetal Fetal	113D 103D	F F	H24409 H24477	1		Experiment protocol  Experiment protocol	TS minElute TS minElute	80 15 60 15.4	4460000 A+Sucrose 5310000 A+Sucrose	2011-08-31	372212886 53120604	0.4424	23°
M2	ENCSR000EPE	ENCLB543ZZZ	ENCBS810TWL	ENCFF400SVZ	AG4040 LN485	8 DS20485 DS20548 9 DS20493 DS20497	Musculoskeletal	Muscle	Lines	Immortalized	Mesoderm human skeletal myoblasts derived from satellit	ne Adult	41Y	M Cauc		0	Biosample protocol	Experiment protocol	TS minElute	80 8.2	8300000 PBS+A	2011-09-26	38876186	0.6335	92
BJ SJ	ENCSR000EPG	ENCLB548ZZZ	ENCBS062ILC	ENCFF290FNL	AG4038 LN486	0 DS20497 DS20493	Nervous Nervous	Brain Brain	Cancer	Cancer	Ectoderm malignant glioblastoma; glioma Ectoderm malignant glioblastoma; glioma	Adult Adult	33Y 33Y	M		0		Experiment protocol  Experiment protocol	TS minElute	160 42 120 43.7	9600000 PBS+A 10300000 PBS+A	2011-09-26	362602979 52469081	0.6903 0.6814	28 12
	ENCSR000EMH	ENCLB420ZZZ	ENCBS011ENC	ENCFF188TFX	AG4037 LN486.	2 DS20514 DS20518 3 DS20518 DS20514	Connective Connective	Stroma Stroma	Primary Primary	Primary Primary	Mesoderm Bone marrow stromal cells  Mesoderm Bone marrow stromal cells	Adult Adult				1	Biosample protocol	Experiment protocol Experiment protocol	TS minElute	120 24.6 80 12.3	5770000 PBS+A 7320000 PBS+A	2011-09-27 2011-09-27	38910038 26167470	0.7609 0.6612	11
al_cord	ENCSR615WIN	ENCLB098XBT	ENCBS703THK	ENCFF506FIK	AG8865 LN486	5 DS20530	Nervous	Spinal Cord	Primary	Primary	Ectoderm Spinal_cord	Fetal	89D	F	H24493	1	Biosample protocol	Experiment protocol	TS minElute	80 18.4	5940000 A+Sucrose	2011-09-28	35060823	0.392	55
I_M2_D4 ie_trunk Musculoskeletal	ENCSR000EPD ENCSR411MGV	ENCLB541ZZZ ENCLB516I AP	ENCBS869RCC ENCBS147SIF	ENCFF004DYM ENCFF390DRY	AG5618 LN486 AG8864 I N496	6 DS20534 DS20647 8 DS20544	Musculoskeletal Musculoskeletal	Muscle Muscle	Lines Primary	Immortalized	Mesoderm human skeletal myoblasts derived from satellit Mesoderm Muscle trunk	e Adult Fetal	41Y 121D	M Cauc	H24507	0	Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	140 76.2 90 15.1	6640000 PBS+A 5130000 A+Sucrose	2011-09-29	232747680 41767753	0.6483	24
ach Tissue invariant	ENCSR282QFE	ENCLB311KAA	ENCBS493GWO	ENCFF154SRI	AG8863 LN486		Digestive	Stomach	Primary	Primary	Endoderm Stomach  Mesoderm human skeletal mychiasts derived from satellit	Fetal	121D 121D	F Cauc	H24507	1		Experiment protocol		80 28.9 80 25.7	6030000 A+Sucrose 11100000 PRS+A	2011-10-03	35532000 208970620	0.4211	50
I_M2 zy			ENCBS233AAA ENCBS434KXU				Musculoskeletal Renal	Muscle Kidney	Lines Primary	Primary Primary	Mesoderm human skeletal myoblasts derived from satellit Mesoderm fKidney	e Adult Fetal	41Y 121D	M Cauc	H24507	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol		80 25.7 60 88.2	11100000 PBS+A 7800000 A+Sucrose	2011-10-04	208970620 24550795	0.7071	
ey renal corb	ENCSR851ZFT	ENCLB504HAW	ENCBS397OFS	ENCFF117WPX	AG8861 LN487	2 DS20568	Renal	Kidney	Primary Primary	Primary	Mesoderm fKidney_cortex	Fetal	89D 89D	F	H24493	1	Biosample protocol	Experiment protocol	TS minElute	60 16.2 60 22.6	5670000 A+Sucrose 4590000 A+Sucrose	2011-10-05	35459876 40423796	0.5417	
ey_renal_pelv Organ devel. / rena I_M2_D4		ENCLB542ZZZ	ENCBS234AAA	ENCFF650EHR	AG5617 LN487-	4 DS20647 DS20534	Musculoskeletal	Kidney Muscle	Lines	Primary Immortalized	Mesoderm fKidney_renal_pelvis  Mesoderm human skeletal myoblasts derived from satellit	e Adult	89D 41Y	F Cauc	H24493	1	Biosample protocol		TS minElute	120 53.8	7840000 PBS+A	2011-10-05 2011-10-07	38041147	0.5152 0.7274	10
Intestine_Mr Digestive	ENCSR731QLJ ENCSR931UQB	ENCLB229OXM	ENCBS725VAK ENCBS853LFM	ENCEF421CDT	AG8859 LN487	9 DS20671 DS21042	Connective	Germ	Lines	ESC	Mesoderm h.H1.polyMSC	Embryon	200	м	Thompson lai	1	Biosample protocol	Experiment protocol  Experiment protocol	TS minElute TS minElute	60 9.9 60 63.7	5400000 Buffer A 6750000 A+Sucrose	2011-10-11	34347692 261183925	0.5932 0.4702	72
	ENCSR820XRX	ENCLB461YNR	ENCBS973YEN	ENCFF864ZOW	AG8857 LN490	1 DS20780	Nervous	Brain	Primary	Primary	Ectoderm fBrain	Fetal	105D	M	H24510	1	Biosample protocol	Experiment protocol		60 38.9	10340000 A+Sucrose	2011-10-25	35336877	0.5348	83
ie_back ie leg			ENCBS984CRC ENCBS931RAE				Musculoskeletal Skeletal Mus Musculoskeletal Skeletal Mus	de Muscle	Primary	Primary	Mesoderm fMuscle_back Mesoderm fMuscle leg	Fetal	105D 105D	M	H24510 H24510	0	Biosample protocol	Experiment protocol	TS minElute TS minElute	80 21.4 80 9.5	8280000 A+Sucrose 5270000 A+Sucrose	2011-10-26	35295319 30962685	0.4885	59
7951	ENCSR000EPV	ENCLB577ZZZ	ENCBS457YHI	ENCFF139TUQ	AG5616 LN493	0 DS20904 DS20909	Integumentary	Skin	Cancer	Cancer	Ectoderm malignant melanoma, adherent, epithelial-like,	g Adult	18Y	Cauc		0	Biosample protocol	Experiment protocol	TS minElute	120 8.2	18180000 PBS+A	2011-11-08	40649561	0.6235	92
I_7951 ey_R Tissue invariant			ENCBS262AAA ENCBS278PUM			1 DS20909 DS20904 6 DS20951	Integumentary Renal	Skin Kidnev	Cancer	Cancer	Ectoderm malignant melanoma, adherent, epithelial-like, Mesoderm fKidney R	g Adult Fetal	18Y 87D	Cauc	H24582	0		Experiment protocol  Experiment protocol	TS minElute TS minElute	120 9.3 60 19.6	18750000 PBS+A 7830000 A+Sucrose	2011-11-08	312202754 25040896	0.6791 0.5321	23 46
al_cord DZ+RA (3 da	ENCSR973MKT	ENCLB050ORF	ENCBS065HLV	ENCFF266NMV	AG8853 LN493	8 DS20956	Nervous	Spinal Cord	Primary	Primary	Endoderm fSpinal_cord	Fetal	87D	F	H24582	1	Biosample protocol	Experiment protocol	TS minElute	80 19.5	5890000 A+Sucrose	2011-11-16	22732283	0.3976	37
C Cancer / epithelial	ENCSR228VNQ	ENCLB160GNU	ENCBS090LBL	ENCFF577ZQB	AG8852 LN100	8 DS21417 DS21405 00 DS18406 DS18438	Nervous Epithelial	Brain Mammary	Cancer Primary	Cancer	Ectoderm Human Neuroblastoma from Bone Marrow Ectoderm vHMEC	Child	2Y	F	RM035	1		Experiment protocol	TS minElute	60 14.3 160	14600000 PBS+A 10190000 PBS+A	2012-01-17	33890909 272623585	0.477	2
I-DZ+RA (3 da			ENCBS520AAA ENCBS478IFF			03 DS21405 DS21417	Nervous Nervous	Brain Brain	Cancer	Cancer	Ectoderm Human Neuroblastoma from Bone Marrow	Child	2Y 2Y	F		0		Experiment protocol	Sucrose Sucrose	60 49.94 60 49.88	11870000 PBS+A 14400000 PBS+A	2012-01-10	239753206 372223058	0.4633	15
DZ	ENCSR946MVP	ENCLB799DVF	ENCBS439FDS	ENCFF686QZS	AG7538 LN100	05 DS21387	Nervous	Brain	Cancer	Cancer	Ectoderm Human Neuroblastoma from Bone Marrow	Child	2Y	F		0		Experiment protocol	Sucrose	60 42.24	10100000 PBS+A	2012-01-09	284019938	0.335	12
Melanocytes Melanocytes						06 DS19662 DS18668 07 DS18590 DS18601	Integumentary Integumentary	Skin	Primary Primary	Primary Primary	Ectoderm Skin_Melanocytes Ectoderm Skin_Melanocytes	Neonatal		M	Skin 02 Skin 01	0	Biosample protocol	Experiment protocol  Experiment protocol		100	8640000 PBS+A 5510000 PBS+A	2011-07-08	34911631 193927893	0.3337	72
Keratinocytes Cancer / epithelial	ENCSR035RVH	ENCLB715HKH	ENCBS293IRA	ENCFF372RCK	AG8848 LN100	08 DS18692 DS18695	Integumentary	Skin	Primary	Primary	Endoderm Skin_Keratinocytes	Neonatal	neonatal	M	Skin 01	1	Biosample protocol	Experiment protocol		160	6330000 PBS+A	2011-04-06	188574315	0.5817	23
reas			ENCBS507RPJ ENCBS3410KA				Endocrine Genitourinary	Pancreas Ovary	Primary Primary	Primary Primary	Endoderm Pancreas Mesoderm Ovary	Adult Adult	30Y 30Y	M F	STL003 STL002	1		Experiment protocol  Experiment protocol		60	7500000 A+Sucrose 14400000 A+Sucrose	2011-10-19	35282184 41761330	0.3087	52
19_11 Primitive / embryo	onic ENCSR383SNM	ENCLB521KWF	ENCBS087RTK ENCBS346WQD	ENCFF0640FM	AG8844 LN100	36 DS15153	Embryonic	Germ	Lines	IPSC	Primitive Induced pluripotent stem cells	Neonatal			STL001	1		Experiment protocol		80	10800000 PBS	2010-05-26	289623335	0.4154	20
	ENCSR731QLJ	ENCLB073XYQ	ENCBS725VAK	ENCFF905MSZ	AG8842 LN100	43 DS21042 DS20671	Cardiovascular Cardiac Connective	Heart Germ	Primary Lines	Primary ESC	Mesoderm Heart Mesoderm h.H1.polyMSC	Child Embryon	3Y		Thompson	0	Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol		90	4230000 A+Sucrose 6300000 PBS+A	2011-09-19	32201010 341743127	0.3411	
ich_Mucosa ius			ENCBS578HBL ENCBS202SUM				Digestive Hematopoletic T-cell	Stomach	Primary	Primary Primary	Endoderm Gastric_Mucosa  Mesoderm Fetal Thymus (significant portion of tissue is bil	Child	3Y 104D		STL001 H24297	1 .		Experiment protocol  Experiment protocol		60	6880000 A+Sucrose 5130000 A+Sucrose	2011-08-23	39696679 40969311	0.3003	51
ach	ENCSR062DUU	ENCLB503KEW	ENCBS690HEQ	ENCFF630RQZ	AG8838 LN100	51 DS20791	Digestive	Stomach	Primary	Primary	Endoderm Stomach	Fetal	105D	M	H24510	0	Biosample protocol	Experiment protocol		80	2880000 A+Sucrose	2011-10-28	31565392	0.3164	36
ach ach			ENCBS385BJQ ENCBS307IZJ				Digestive Digestive	Stomach Stomach	Primary Primary	Primary Primary	Endoderm Stomach Endoderm Stomach	Fetal Fetal	96D gen	F	H24365 H24342	0		Experiment protocol  Experiment protocol		80	3690000 A+Sucrose 2070000 A+Sucrose	2011-08-06	56267039 56646207	0.3285 0.3368	59 63
al_cord	ENCSR788SOI	ENCLB105FMM	ENCBS373RUA	ENCFF702IOI	AG8835 LN100	54 DS19260	Nervous	Spinal Cord	Primary	Primary	Ectoderm SpinalCord_d96_M	Fetal	96D	м	H24244	1	Biosample protocol	Experiment protocol		80	4500000 A+Sucrose	2011-06-01	33052984	0.3365	41
enta Placental / trophot enta	ENCSR802AJE	ENCLB958USK	ENCBS122HFH ENCBS454SHH	ENCFF845FYY	AG8833 LN100	67 DS21111	Fetal Life Support Fetal Life Support	Placenta Placenta	Primary Primary	Primary Primary	Endoderm Placenta Endoderm fPlacenta	Fetal Fetal	113D 85D	F M	H24409 H24608	0	Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol		60	4000000 A+Sucrose 14220000 A+Sucrose	2011-08-30	536365327 35086379	0.4832	25 48
enta Placental / trophot			ENCBS171TKY ENCBS645.IFLI				Fetal Life Support	Placenta	Primary	Primary Primary	Endoderm fPlacenta Mesoderm Ovany	Fetal	105D 110D 107D	м	H24510 H23604 (d11	1	Biosample protocol	Experiment protocol		60	7770000 A+Sucrose 4500000 A+Sucrose	2011-10-26	44039880 27506520	0.5832	10
/ le_arm	ENCSR356QCD	ENCLB236HTC	ENCBS170QGH	ENCFF406YNI	AG8830 LN100	70 DS19439	Genitourinary Musculoskeletal Skeletal Mus	ile Muscle	Primary Primary	Primary	Mesoderm Muscle arm	Fetal	101D	F	H24279	0	Biosample protocol	Experiment protocol		100	4950000 A+Sucrose	2011-06-17	19344520	0.3556	27
le_leg  R Pulmonary devel.			ENCBS868UBY ENCBS841XLK				Musculoskeletal Skeletal Mus Respiratory	le Muscle Lung	Primary Primary	Primary Primary	Mesoderm fMuscle_leg Endoderm fLung_R	Fetal Fetal	85D 87D	F	H24272 H24626	1	Biosample protocol	Experiment protocol  Experiment protocol	Sucrose	80 40 46.08	2430000 A+Sucrose 11600000 A+Sucrose	2011-06-10	30845413 37576278	0.3546	39
Pulmonary devel.	ENCSR4410GH	ENCLB584CHT	ENCBS116AWF	ENCFF314TFZ	AG8827 LN100	74 DS21334	Respiratory	Lung	Primary	Primary	Endoderm fLung_L	Fetal	87D	M	H24626	1	Biosample protocol	Experiment protocol	Sucrose	40 46.08 40 19.32	13100000 A+Sucrose	2011-12-29	41502598	0.6446	89
(_R (_R			ENCBS836CTT ENCBS006TBC				Renal Renal	Kidney	Primary Primary	Primary Primary	Mesoderm fKidney_R Mesoderm fKidney_R	Fetal	98D 87D	F	H24568 H24628	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	Surme	60 50 26.18	5250000 A+Sucrose 5250000 A+Sucrose	2011-11-09	37695830 28772144	0.449	64 54
_R	ENCSR414ZUA	ENCLB208VBI	ENCBS566FDC	ENCFF863TYO	AG8824 LN100	78 DS21044	Renal	Kidney	Primary	Primary	Mesoderm fKidney_R	Fetal	108D	М	H24595	1	Biosample protocol	Experiment protocol	Gucioni	60	13080000 A+Sucrose	2011-12-02	24652076	0.4369	33
y_renal_corb Organ devel. / rena y_L Organ devel. / rena	nal ENCSR120LVW	ENCLB713HDB	ENCBS345NEG ENCBS796RBE	ENCFF299DGG	AG8822 LN100	80 DS20920	Renal Renal	Kidney	Primary Primary	Primary Primary	Mesoderm Kidney.cortex Mesoderm fKidney_L	Fetal Fetal	103D 98D	F	H24477 H24568	1		Experiment protocol  Experiment protocol		60	10940000 A+Sucrose 6320000 A+Sucrose	2011-09-22 2011-11-09	48061574 48646132	0.3791 0.493	73 76
y L	ENCSR600RAA	ENCLB379FUC	ENCBS752CNE	ENCFF982NGR	AG8821 LN100	81 DS21344	Renal	Kidney	Primary	Primary	Mesoderm fKidney_L	Fetal	87D	F	H24626	0	Biosample protocol	Experiment protocol	Sucrose	60 27.72	3780000 A+Sucrose	2011-12-30	40121904	0.5	60
Organ devel. / rena Organ devel. / rena	ENCSR757EPJ	ENCLB476KOD	ENCBS657MPH ENCBS660HTK	ENCFF767XZT	AG8819 LN100	83 DS21096	Renal Renal	Kidney	Primary Primary	Primary Primary	Mesoderm fKidney_L Mesoderm fKidney	Fetal Fetal	87D 85D	M	H24582 H24608	1	Biosample protocol	Experiment protocol  Experiment protocol		60	7250000 A+Sucrose 7920000 A+Sucrose	2011-11-15 2011-12-05	42198177 35945996	0.5131 0.6227	75
y			ENCBS382CRI ENCBS232ONZ			84 DS20987 DS20988	Renal	Kidney	Primary	Primary	Mesoderm fkidney	Fetal	113D	F		0	Biosample protocol	Experiment protocol		60	18120000 A+Sucrose	2011-11-18	19295524 44160570	0.438	30
d Myeloid / erythroid	ENCSR866RCY	ENCLB096KLT	ENCBS660CJK	ENCFF496ZFE	AG8816 LN100		Endocrine Endocrine	Adrenal Gland Adrenal Gland	Primary Primary	Primary Primary	Mesoderm Adrenal Mesoderm Adrenal	Fetal	101D 85D	F	H24279 H24272	0		Experiment protocol  Experiment protocol		60	4680000 A+Sucrose 4140000 A+Sucrose	2011-06-29	44160570 25697557	0.3075 0.3294	62 43
Myeloid / erythroid	ENCSR468ZXN ENCSR316UDAI	ENCLB860SDJ ENCLB305Y7E	ENCBS121LTF ENCBS714KQF	ENCFF593WNV	AG8815 LN100	87 DS12734 88 DS17885	Hematopoietic Progenitor	Blood	Primary Primary	Primary Primary	Mesoderm CD 34+ Hematopoietic progenitor cells Mesoderm CD8	Adult Adult	33Y 37Y	F Cauc M Hisp	RO 01549 RO 01701	1 1		Experiment protocol  Experiment protocol	PE PE	80 120	7840000 Buffer A	2009-10-22	352144704 482751180	0.7518 0.6957	23
Lymphoid	ENCSR683QJJ	ENCLB270QXD	ENCBS424MFE	ENCFF431TDI	AG8813 LN100	89 DS17212	Hematopoietic T-cell	Blood	Primary	Primary	Mesoderm CD4+ T cells	Adult	21Y	M Cauc	RO 01721/R0			Experiment protocol		120	5910000 Buffer A	2010-11-03	401571361	0.6649	13
Organ devel. / rena	ENCSR774RCO	ENCLB758OYY	ENCBS034ZQP ENCBS122WMZ	ENCFF467HBA	AG8812 LN101	13 DS20786	Renal Musculoskeletal Skeletal Mus	Kidney le Muscle	Primary Primary	Primary Primary	Mesodern fKidney Mesodern fMuscle back	Fetal Fetal	105D 108D	M M	H24510 H24595	1	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	Sucrose	70 80	9990000 A+Sucrose 9180000 A+Sucrose	2011-10-25	274507681 27771209	0.5599 0.4765	25 49
Y Tissue invariant	ENCSR645GJD	ENCLB963LDG	ENCBS382CRI	ENCFF480CYL	AG8810 LN101	57 DS20988 DS20987	Renal	Kidney	Primary	Primary	Mesoderm fKidney	Fetal	113D	F	H24584	1	Biosample protocol	Experiment protocol	Sucrose	70 32.98	18120000 A+Sucrose	2011-11-18	36520939	0.438	52
wa + Sendal wa_0			ENCBS040JOT ENCBS105ISO			55 DS22648 DS22823 68 DS22816	Hematopoletic Lymphoid Hematopoletic Lymphoid	Blood	Cancer	Cancer	Mesoderm Burkitts Lymphoma Mesoderm Burkitts Lymphoma	Child	3Y 3Y	F		0 1	Biosample protocol	Experiment protocol	Sucrose	50 49.91 40 22	7900000 PBS+A 6420000 PBS+A	2012-06-19	114834828 422272378	0.3568	138
wa + Sendal	ENCSR3010GM	ENCLB655XKR		ENCFF873MKS	AG3876 LN203	69 DS22823 DS22648	Hematopoietic Lymphoid	Blood	Cancer	Cancer	Mesoderm Burkitts Lymphoma	Child	3Y	F		1		Experiment protocol	Sucrose	40 11	7340000 PBS+A	2012-07-31	446481866 346519378	0.4524	14:
Oa_ER_SRC Cancer / epithelial Oa_ER_SRC Cancer / epithelial	ENCSR789VGQ	ENCLB086WLE	ENCBS868SSJ	ENCFF692KJI	AG3916 LN203	87 DS22991	Epithelial Epithelial	Mammary Mammary	Cancer	Cancer	Ectoderm Mammary epithelial cells Ectoderm Mammary epithelial cells	Adult	36Y	F		0		Experiment protocol  Experiment protocol	Sucrose Sucrose	80 60.06		2012-10-24	346519378 253713588	0.641 0.5215	28
8226	ENCSR594NOE	ENCLB167OQH	ENCBS457ZNO	ENCFF314ZPQ	AG3869 LN204	00 DS22919 DS229130	Hematopoletic Myeloid	Blood	Cancer	Cancer	Mesoderm Human plasmacytoma (myeloma) from periphe	er Adult	61Y	M		0 1	Biosample protocol	Experiment protocol	Sucrose	40 49.97	6800000 PBS+A	2012-08-17	239632971	0.4742	13
H460	ENCSR000FJH	ENCLB334ZYZ	ENCBS515AAA	ENCFF165VXP	AG3979 LN204	10 DS23107 DS23114/ 11A DS23114A DS23107	Respiratory	Lung	Cancer	Cancer	Endoderm Human large cell lung carcinoma  Endoderm Human large cell lung carcinoma	Adult Adult	37Y 37Y	M		1	Biosample protocol	Experiment protocol  Experiment protocol		100 42.46 120 56.54	9850000 PBS+A	2012-12-07	53873807 71392694	0.4728 0.4981	79 64
RH30 RH30	ENCSR000FFJ	ENCLB335ZYZ	ENCBS516AAA	ENCFF881ORY	AG5519 LN204	12 DS23117 DS23123/ 13A DS23123A DS23117,	Musculoskeletal	Muscle Muscle	Cancer	Cancer	Mesodern Human muscle rhabdomyosarcoma Mesodern Human muscle shabdomyosarcoma	Child	17Y	M		0	Biosample protocol	Experiment protocol  Experiment protocol	Molly's Sucrose	100	19400000 PBS+A 19600000 PBS+A	2012-12-10	61856074	0.4596	102
						13A DS23123A DS23117, 14 DS23131 DS23137,		Skin	Cancer	Cancer	Mesoderm Human muscle rhabdomyosarcoma Ectoderm Human skin malignant melanoma	Adult	24Y	F		1	Biosample protocol	Experiment protocol	Molly's Sucrose	75.24 80 41.4	19600000 PBS+A 16000000 PBS+A	2012-12-11	393546633 287482154	0.498	16
MEL_5 MEL_5	ENCSR000FEK ENCSR000FEK	ENCLESS/212				15 DS23137 DS23131,			Cancer	Cancer	Ectoderm Human skin malignant melanoma	Adult						Experiment protocol	Molly's Sucrose			2012-12-11			

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Sparket March	You send they read	DEE EXPERIENCE	DCC LBrady IL	OCC Blowsend	OCC FIRE DO AN	A Regular Land Land	gardicate in	Septet Speeder	Orgen	Standingly 197	Biological state	Serie Serie Series Seri	Growin	Van Set	Etroletti	Doror ID	oritaine cellular	au reget de pro	E. Experiment Pro	Jaren Harten Tarent Green	Others defined	Don't Hodge	professe rent	Jinery section.	Regate Legat	DCC SPOT SCC	Destroyed Diese Window
Retina N	leural leural	ENCSR621ENC	ENCLB238FWZ ENCLB587HLG	ENCRS386PSR	ENCFF820TOX AG ENCFF163TAC AG	3881 LN20434 DS23286 3878 LN20451 DS23341	1	Nervous Nervous	Eye Eye	Primary Primary	Primary Primary	Ectoderm Retina Ectoderm Retina	Fetal Fetal	103D M 74D F		1		Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	Mondriar Sucrose Mondriar Sucrose	100 9.3		0 A+Sucrose 0 A+Sucrose	2013-01-22 2013-01-30	214856308 315836333	0.453 1 0.5081 1	142045 139232 159199 156520
Retina		ENCSR474GZQ	ENCLB919JBV	ENCBS704PVR	ENCFF429VRT AG	3877 LN20458A DS23368	BA	Nervous	Eye Eye	Primary	Primary	Ectoderm Retina Primitive h ESC FLE-1	Fetal Fetal	125D M		1		Biosample protocol	Experiment protocol	Mondriar Sucrose	100 20 100 20		0 A+Sucrose	2013-02-06	244360628 262127187	0.7 1	130725 129624
ELF_1	Timility of embryonic	ENCSR678ILN	ENCLB123VXG	ENCBS706FDR	ENCFF104RTP AG	5516 LN20460 DS23378	B DS23373	Embryonic	Germ	Lines	ESC	Primitive h.ESC ELF-1	Embryoni	a		0		Biosample protocol	Experiment protocol	Mondriar Sucrose	80	630000	0 PBS+A	2013-02-06	31533758	0.3622 5	50375 50238
HT_1080 HT_1080						3882 LN20478 DS23466 5515 LN20479 DS23472		Connective Connective		Cancer	Cancer	Mesoderm Fibrosarcoma Mesoderm Fibrosarcoma	Adult Adult	35Y M		1		Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol	Molly's Sucrose Mondriar Sucrose	140 9.35		0 PBS+A 0 PBS+A	2013-02-26 2013-02-26	48701710 371761066		95801 95689 197194 196972
KBM7	flyeloid / erythroid	ENCSR426IEA	ENCLB182IDD	ENCBS815EDC	ENCFF459VXT AG	3866 LN20483 DS23530	DS23535	Hematopoietic Myeloid	Blood	Cancer	Cancer	Mesoderm Clone P00174E07 (Haplogen)	Adult	40Y M		1		Biosample protocol	Experiment protocol	Mondriar Sucrose	80 9.5	144800	00 PBS+A	2013-03-06	201604281	0.5612 1	149137 148738
Brain_hippocampu	lyeloid / erythroid					3867 LN20484 DS23535 3843 LN20488 DS23541		Hematopoietic Myeloid Nervous	Blood Brain	Cancer Primary	Cancer Primary	Mesoderm Clone P00174E07 (Haplogen)  Ectoderm Brain _Hippocampus (Ammon's Horn)	Adult Adult	40Y M 84Y M		UWA 498 1		Biosample protocol	Experiment protocol  Experiment protocol	Sucrose Sucrose	70	143600 594000	00 PBS+A 0 Sucrose HLB	2013-03-06 s 2013-03-07	90766816 344578025	0.5272 1 0.3381 1	119041 118897 140795 140320
Brain_Cerebellar_CN	ioural Iromal A					5514 LN20489 DS23545 3824 LN20490 DS23553		Nervous Connective	Brain	Primary	Primary	Ectoderm Brain_cerebellar cortex  Mesoderm Adherent BJ-hTert cell line	Adult	84Y M		UWA 498 1		Biosample protocol Biosample protocol	Experiment protocol	Sucrose Molly's Sucrose	70		00 Sucrose HLB 0 PBS+A	2013-03-07	485529537	0.4416 2	201363 199546
EH S	itromal B	ENCSR548MMD	ENCLB721PER	ENCBS070WLP	ENCFF686SKC AG	3823 LN20491 DS23559	9 DS23553	Connective	Skin	Lines		Mesoderm Adherent BJ-hTert cell line	Neonatal	M		0			Experiment protocol		140 21	126000	00 PBS+A	2013-03-11	563411204	0.7854 2	294614 294312
MCF10a_ER_SRC	ancer / epithelial					3915 LN20496 DS22980 7536 LN20509A DS23661		Epithelial Nervous	Mammary	Cancer	Cancer	Ectoderm Mammary epithelial cells Ectoderm Cerebellar_Cortex	Adult	36Y F 78Y M		UWA 479 1			Experiment protocol  Experiment protocol	Sucrose Mondriar Sucrose	100 21.2 80 19.3		00 PBS+A 00 Sucrose HLB	2012-10-24	228823814	0.5809 2 0.3944 8	236984 236742 89668 88685
fBrain N	leural	ENCSR595CSH	ENCLB743EFP	ENCBS539WGT	ENCFF208QLG AG	3839 LN20614A DS23813	3A	Nervous	Brain	Primary	Primary	Ectoderm fBrain	Fetal	56D M		H25366 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	80 77.8	603000	0 A+Sucrose	2013-05-24	266001370	0.6425 1	174122 173259
Eye N	leural					3840 LN20656A DS23833 3825 LN20660A DS23825		Nervous Connective	Eye Skin	Primary Lines	Primary Immortalized	Ectoderm fEye Mesoderm Adherent BJ-like cell line	Fetal Neonatal	56D M		H25366 1			Experiment protocol  Experiment protocol	FC-121-i Sucrose FC-121-i Sucrose	80 64.8 100 456	346000	0 A+Sucrose 00 PBS+A	2013-06-12 2013-06-12	549570497 317683386	0.5043 2 0.6 2	232675 231311 221717 221449
EL .		ENCSR691MQJ	ENCLB867XAL	ENCBS741IJV	ENCFF099GHU AG	3826 LN20662A DS23819 3872 LN20666A DS23951	9A DS23825A	Connective	Skin	Lines		Mesoderm Adherent BJ-like cell line	Neonatal	M		UWA 479 1		Biosample protocol	Experiment protocol		100 400. 70 44.4		00 PBS+A	2013-06-12	53072806		111303 111184
Brain_Globus_Palli Globus_Pallidus		ENCSR771DAX	ENCLB754WQC	ENCBS369KEX	ENCFF292FRC AG	3249 LN20668A DS23947	7A	Nervous	Brain	Primary Primary	Primary Primary		Adult	84Y M		JWA 479 1 JWA 498 0		Biosample protocol	Experiment protocol	FC-121-/ Sucrose	90 200	645000	0 Sucrose HLB 0 Sucrose HLB	s 2013-06-12 s 2013-06-14	275885521 82406522	0.4559 1 0.3138 6	107648 107219 61101 60939
Aung P	ulmonary devel.					3942 LN20738C DS23983		Respiratory	Lung	Primary	Primary	Endoderm flung Mesoderm Adherent kidney Carcinoma, clear cell	Fetal Adult	80D F 69Y M		H25386 1			Experiment protocol  Experiment protocol	FC-121-i Sucrose Mondriar Sucrose	60 41.2 100 50		00 A+Sucrose	2013-07-02	231714382	0.6792 2	234067 233495
Caki2	tenai / cancer	ENCSR515EWI	ENCLB538RFP	ENCBS461KDA	ENCFF014URY AG	7535 LN20837A DS24205	5A DS24211A		Kidney	Cancer	Cancer	Mesoderm Adherent kidney Carcinoma, clear cell	Adult	69Y M		0			Experiment protocol	Mondriar Sucrose	100 50	880000	0 PBS+A	2013-07-09	14019118	0.5607 3	31692 31588
SJSA1 SJSA1						3978 LN20838A DS24241 7534 LN20839A DS24235			Bone	Cancer	Cancer	Mesoderm Osteosarcoma, multipotential sarcoma Mesoderm Osteosarcoma, multipotential sarcoma	Adult	19Y M		0		Biosample protocol		Mondriar Sucrose Mondriar Sucrose	120 50		0 PBS+A 0 PBS+A	2013-07-09	40853966	0.3684 5	53016 52024 145559 144047
fKidney		ENCSR768OLL	ENCLB500XLJ	ENCBS#69FLT	ENCFF705ISZ AG	7533 LN20841A DS21924	4A	Renal	Kidney	Primary	Primary	Mesoderm (Kidney	Fetal	91D M		H24741 1		Biosample protocol		Mondriar Sucrose	40 18		0 A+Sucrose	2012-03-16	205035892	0.5191 1	108343 106452
fKidney_L CD34 T0	funicid / enghroid	ENCSR097BWW	ENCLB843WLM	ENCBS999JGR	ENCFF214ZXK AG	3874 LN20842A DS21928	BA AA DERBAAAA	Renal	Kidney Blood	Primary Primary	Primary Stem Cells	Mesoderm fKidney_Left Mesoderm CD34 + time 0 control	Fetal Adult	91D M		H24741 1	1	Biosample protocol	Experiment protocol	Mondriar Sucrose	40 30	705000	0 A+Sucrose n PRS+A	2012-03-16	30953438		35541 34678 156765 156381
CD34_T8 M	fyeloid / erythroid	ENCSR845CFB	ENCLB806PSJ	ENCBS575XLE	ENCFF514IMY AG	7532 LN20866A DS24094	4A DS25762A	Hematopoietic Erythroid	Blood	Primary	Stem Cells	Mesoderm CD34 + day 8 differentiation	Adult	25Y M		RO 02366 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	80 9.3	100000	00 PBS	2013-07-31	455125899	0.5461 1	146240 145924
3401 fl uno						3883 LN20867A DS24154 3943 LN20912A DS24360		Renal Respiratory	Kidney	Cancer	Cancer	Mesoderm Adharent human kidney rhabdoid tumor Endoderm Lung	Child	3Y M		H25460 1		Biosample protocol		FC-121-; Sucrose FC-121-; Sucrose	80 8.4 60 100		00 PBS+A 0 A+Sucrose	2013-07-31	111840040 163138507	0.4635 7 0.316 1	73167 72887 105853 105229
ACHN F	Renal / cancer	ENCSR257BGZ	ENCLB078PAT	ENCBS569UYK	ENCFF203ABD AG	3871 LN20963A DS24547	7A DS24471A	Renal	Kidney	Cancer	Cancer	Mesoderm Human adherent renal cell adenocarcinoma	Adult	22Y M		1		Biosample protocol	Experiment protocol	FC-121-I Sucrose	120 100-	-1000 131000	00 PBS+A	2013-08-22	267546014	0.4902 1	167122 166711
Brain_Putamen						3931 LN20969A DS24571 3875 LN20970A DS24567		Nervous	Brain	Primary	Primary Cancer	Ectoderm Brain_Putamen  Ectoderm Medulloblastoma, desmoplastic cerebellar	Adult	78Y M		UWA 479 1			Experiment protocol	FC-121-/ Sucrose		-1000 920000 -1000 153000	0 Sucrose HLB	2013-08-22 2013-08-22	148156214 282329931	0.3288 9	97103 96825
Daoy		ENCSR346IHH	ENCLB717TLA	ENCBS812KQP	ENCFF089LGW AG	3890 LN21023A DS24561	1A DS24567A	Nervous	Brain	Cancer	Cancer	Ectoderm Medulloblastoma, desmoplastic cerebellar	Child	4Y M		0		Biosample protocol	Evperiment protocol	Currore	120 100-	133000	00 PBS+A	2013-08-19	47591082	0.524 8	87119 87027
CD34_T15 MG63						3837 LN21049A DS24190 3927 LN21068A DS24640		Hematopoletic Erythroid	Blood	Primary	Stem Cells Cancer	Mesoderm CD34 + day 15 differentiation  Mesoderm Human adherent Osteosarcoma	Adult	25Y M		RO 02366 1	1		Experiment protocol  Experiment protocol	FC-121- Sucrose	100 5.1 80 13.1		0 PBS+A 0 PBS+A	2013-07-02	169492062 253320748	0.3719 6 0.6156 2	63553 63357 224630 224305
MG63		ENCSR083STA	ENCLB475XTU	ENCBS462PMF	ENCFF320MMB AG	3900 LN21069A DS24634	4A DS24640A	Musculoskeletal	Bone	Cancer	Cancer	Mesoderm Human adherent Osteosarcoma	Child	14Y M		0		Biosample protocol	Experiment protocol	FC-121- Sucrose	80 11.7	7 125000	00 PBS+A	2013-09-24	45849300	0.6061 1	100875 100785
Brain H4						3892 LN21133A DS24711 3924 LN21141A DS24930		Nervous Nervous	Brain Brain	Primary	Primary Cancer	Ectoderm Brain Ectoderm human adherent epithelial Neuroglioma	Fetal Adult	76D M 37Y M		H25574 1			Experiment protocol	FC-121- Sucrose	70 27.3 80 19.7		0 A+Sucrose	2013-10-24 2013-10-28	43461512 266578764	0.3812 5 0.3019 1	51572 51354 135413 135288
fStomach		ENCSR095GWE	ENCLB248TKA	ENCBS521MUU	ENCFF156RFR AG	3911 LN21202A DS24733	3A	Digestive	Stomach	Primary	Primary	Endoderm Stomach	Fetal	76D M		H25574 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	90 10	297000	0 A+Sucrose	2013-11-06	357050828	0.3464 1	170922 169870
Heart C	eardiac Journal	ENCSR782XFY	ENCLB855SXK	ENCBS129DWJ	ENCFF752YQK AG	3893 LN21203A DS24731 3921 LN21204A DS24728	BA	Cardiovascular Cardiac Nervous	Heart Eve	Primary Primary	Primary Primary	Mesoderm Heart Ectoderm Eve	Fetal	76D M		H25574 1 H25574 1		Biosample protocol		FC-121-/ Sucrose	80 2.9 80 5.9		0 A+Sucrose 0 A+Sucrose	2013-11-06	328181740 371885372	0.4953 2 0.5114 2	238158 237548 233465 232320
fEye N fLung P	fulmonary devel.					3910 LN21205A DS24726		Respiratory Fetal Life Support	Lung Umbilical Cord	Primary	Primary Primary	Endoderm Lung	Fetal	76D M		H25574 0			Experiment protocol	FC-121-i Sucrose	60 6.5		0 A+Sucrose	2013-11-06	354722245 337925345	0.5561 2	218205 217366 231270 230578
/Umbilical_cord	ieural	ENCSR127PWK	ENCLB979EBT	ENCBS446ODB	ENCFF676HPQ AG	3842 LN21208A DS24796	5A	Nervous	Umblical Cord Eye	Primary Primary	Primary	Endoderm Umbilical cord Ectoderm Eye	Fetal	76D M		H25574 1 H25614 0		Biosample protocol Biosample protocol	Experiment protocol	FC-121-i Sucrose	60 4.6 90 7.2	200000	0 A+Sucrose	2013-11-06	337925345 376843599	0.4301 2 0.4263	231270 230578 199268 198161
HeLaS3 C	Cancer / epithelial					3914 LN21209A DS24790			Uterus	Cancer	Cancer	Ectoderm adherent human cervical adenocarcinoma	Adult	31Y F		0		Biosample protocol		FC-121-i Sucrose	60 1	150000	00 PBS+A	2013-11-06	291032378		213669 213416
HeLaS3 fBrain N A172	ieural	ENCSR595CSH	ENCLB908OXL	ENCBS852UJL	ENCFF226IIT AG	3946 LN21218A DS24785 5510 LN21221A DS24775	5A	Genitourinary Nervous	Uterus Brain	Cancer Primary	Cancer Primary	Ectoderm adherent human cervical adenocarcinoma  Ectoderm Brain	Adult Fetal	31Y F 58D M		H25606 1		Biosample protocol		FC-121-/ Sucrose	60 1	110000	00 PBS+A 00 A+Sucrose	2013-11-08 2013-11-08	42656738 323014256		79075 78990 209582 208643
A172		ENCSR932KWJ	ENCLB693NHX	ENCBS874LTK	ENCFF976FML AG	3905 LN21224A DS24744	4A DS24719A	Nervous	Brain	Cancer	Cancer	Ectoderm human adherent Glioblastoma Ectoderm human adherent Glioblastoma	Adult	53Y M		1		Biosample protocol	Experiment protocol	FC-121-; Sucrose FC-121-; Sucrose	120 7.8 120 8.4	755000	0 PBS+A	2013-11-08	312453140 53132367	0.4459 1 0.3545 7	171785 171554
HepG2		ENCSR149XIL	ENCLB048DXW	ENCBS048XFP	ENCFF401PML AG	3884 LN21225A DS24719 3897 LN21286A DS24845	5A DS24838A	Hepatic	Liver	Cancer	Cancer	Endoderm hepatocellular carcinoma	Child	15Y M		0		Biosample protocol	Experiment protocol	FC-121-I Sucrose	100 1.4	154800	00 PBS+A	2013-10-24	54150655	0.3618 7	71626 71548
HepG2	issue invariant					5509 LN21287A DS24838 3895 LN21288A DS24835		Hepatic Digestive	Liver	Cancer	Cancer	Endoderm hepatocellular carcinoma Mesoderm Tongue	Child	15Y M		0 H25566 1			Experiment protocol  Experiment protocol	FC-121-/ Sucrose	80 2.5 80 3.8		00 PBS+A A+Sucrose	2013-10-24	443969599 59663707		173336 173064 52495 52269
fSpinal_cord N	leural	ENCSR9100QF	ENCLB216GJK	ENCBS665NIQ	ENCFF836HZX AG	3922 LN21289A DS24833	3A	Nervous	Spinal Cord	Primary	Primary	Ectoderm Spinal Cord	Fetal	59D F		H25566 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	60 1.8	450000	0 A+Sucrose	2013-10-24	654629469	0.4399 2	298953 297421
/Tongue M	flusculoskeletal flusculoskeletal	ENCSR759UNY ENCSR559WMK	ENCLB323PCN ENCLB329LLIC	ENCBS321GUH ENCBS377XXD	ENCFF482NQB AG	3923 LN21290A DS24808 3912 LN21292A DS24888	BA BA	Digestive Digestive	Tongue	Primary	Primary	Mesoderm Tongue Mesoderm Tongue	Fetal	76D F		H25614 1			Experiment protocol  Experiment protocol	FC-121-i Sucrose FC-121-i Sucrose	70 3.1 80 2.6		0 A+Sucrose 0 A+Sucrose	2013-10-24	368107814	0.415 2	233230 232547 227994 227286
fBrain N	ieural	ENCSR475VQD	ENCLB188MGU	ENCBS489VFT	ENCFF018HMY AG	3920 LN21323A DS24872	2A	Nervous	Brain	Primary	Primary	Ectoderm Brain	Fetal	72D M		H25636 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose		120000	00 A+Sucrose	2013-11-05	346930446		246238 245324
L1S8 L1S8						3810 LN21363A DS25067 3811 LN21364A DS25072		Embryonic Embryonic	Germ	Lines	IPSC IPSC	Primitive Human fully reprogrammed iPS cell line derived	Adult Adult			0			Experiment protocol  Experiment protocol	FC-121-; Sucrose FC-121-; Sucrose	80 15.9 80 9.3		0 PBS+A 0 PBS+A	2013-11-12	319867401 267780831	0.3387 1 0.3402 9	159627 159135 99886 99551
HT29 D	ligestive					5508 LN21365A DS25119 5507 LN21379A DS24228			Colon Blood	Cancer	Cancer Stem Cells	Endoderm colorectal adenocarcinoma Mesoderm CD34 + day 17 differentiation	Adult Adult	44Y F 25Y M		1 RO 02366 0			Experiment protocol  Experiment protocol	FC-121-/ Sucrose	80 10.9 100 5.2		00 PBS+A 0 PBS+A	2013-11-15	290583326	0.6304 2 0.3122 7	204660 204305 79566 78941
CD34 T4 M	fyeloid / erythroid					3832 LN21381A DS24074			Blood	Primary	Stem Cells	Mesoderm CD34 + day 17 differentiation  Mesoderm CD34 + day 4 differentiation	Adult	25Y M		RO 02366 0	1			FC-121-; Sucrose FC-121-; Sucrose	100 56.3		0 PBS+A	2013-11-23	321779200	0.3122 /	79566 78941 183321 182958
CD34_T17 PC3 C	Second collected					3937 LN21382A DS24222 3928 LN21648C DS25129		Hematopoietic Erythroid	Blood	Primary	Stem Cells	Mesoderm CD34 + day 17 differentiation Endoderm Human prostate adenocarcinoma (grade 4)	Adult	25Y M 62Y M C		RO 02366 1		Biosample protocol	Experiment protocol  Experiment protocol	FC-121-/ Sucrose	100 9.9 140 26.1		0 PBS+A 0 PBS+A	2013-11-21 2013-11-18	312298958	0.3473 6	65852 65527
AL	ancer/epitnelial	ENCSR405TXU	ENCLB884YIS	ENCBS754GFE	ENCFF439BHU AG	3886 LN21650C DS24015	SC DS26410A	Integumentary	Adipose	Primary		Mesoderm Adipocytes derived from AF-MSC cells	Fetal	62Y M C	Jauc	0		Biosample protocol	Experiment protocol	FC-121- Sucrose	100 5.5		0 PBS+A	2013-06-13	48088340	0.433 2	80406 80162
CD34_T4 M CD34_T8 M	flyeloid / erythroid					3831 LN26240A DS25687 3835 LN26258A DS25769		Hematopoietic Erythroid	Blood	Primary	Stem Cells Stem Cells	Mesoderm CD34+ T4, Day 4 differentiation Mesoderm CD34+ T8, Day 8 differentiation	Adult	25Y M		RO 02366 1	1		Experiment protocol  Experiment protocol	FC-121-	80 50 80 30		0 PBS+A 0 PBS+A	2014-02-13	361402768 282261693	0.6173 2	245256 244793 167123 166835
CD34 T8 M	flyeloid / erythroid	ENCSR845CFB	ENCLB260IQZ	ENCBS169JBH	ENCFF285AST AG	3889 LN26259A DS25762	2A DS24094A	Hematopoietic Erythroid	Blood	Primary	Stem Cells	Mesoderm CD34+ T8, Day 8 differentiation	Adult	25Y M		RO 02366 0	1	Biosample protocol	Experiment protocol	FC-121-	80 30	608000	0 PBS+A	2014-01-17	98397905	0.5016 1	101209 101086
CD34_T6 M CD34_T6 M	flyeloid / erythroid					3834 LN26263A DS25729 3833 LN26288A DS25730			Blood	Primary Primary	Stem Cells Stem Cells	Mesoderm CD34+ T6, Day 6 differentiation Mesoderm CD34+ T6, Day 6 differentiation	Adult	25Y M 25Y M		RO 02366 1	1		Experiment protocol  Experiment protocol		100 100 120 50		0 PBS+A 0 PBS+A	2014-01-15	214009849 407694757		156166 155741 204374 203758
CD34_T18	ayesola i ei yesiola	ENCSR493IAY	ENCLB573JSZ	ENCBS303WCA	ENCFF277ELJ AG	3838 LN26316A DS25969	BA.	Hematopoietic Erythroid	Blood	Primary	Stem Cells	Mesoderm CD34+ T18, Day 18 differentiation	Adult	25Y M			1	Biosample protocol	Experiment protocol	FC-121-	80 3.6	540000	0 PBS+A	2014-02-26	362253269	0.4394 7	78728 78348
PGP1_fibroblast SI PGP1_iPSC P	rimitive / embryonic	ENCSR217TAW ENCSR004SUII	ENCLB544CVI ENCLB440GKD	ENCBS367AAA ENCBS373AAA	ENCFF885GKY AG ENCFF813PELL AG	7531 LN26368A DS26113 3966 LN26379A DS26351	3A DS26347A	Connective Embryonic	Skin	Primary	Primary	Mesoderm PGP1_fibroblast Primitive Induced pluripotent cells	Neonatal Neonatal	м		0		Biosample protocol	Experiment protocol	FC-121-	42.1 20		0 PBS+A 0 PBS+A	2014-02-26	523060791 134911762	0.7672 3 0.4053 1	325189 323984 150758 150360
PGP1_fibroblast S	tromal B	ENCSR217TAW	ENCLB358EUZ	ENCBS372AAA	ENCFF605RRV AG	3965 LN26381A DS26347	7A DS26113A	Connective	Skin	Primary	Primary	Mesoderm PGP1_fibroblast	Neonatal	M		1		Biosample protocol	Experiment protocol	FC-121-	45	246000	0 PBS+A	2014-02-28	188982975	0.7673 2	234167 233688
ELR ELR		ENCSR240TPI	ENCLB894JER	ENCBS935PZD	ENCFF769CRH AG	3828 LN26394A DS26318 3827 LN26395A DS26313	3A DS26318A	Connective	Skin	Lines	Immortalized	Mesoderm BJ-htert - T antigens and an oncogenic derivation  Mesoderm BJ-htert - T antigens and an oncogenic derivation	v Neonatal	M M		1		Biosample protocol  Biosample protocol	Experiment protocol	FC-121-1 FC-121-1	17.0	46 349000	0 Buffer A 0 Buffer A	2014-02-28	42919088 390334623		105454 105270 260345 259847
CD34_T0 M	fyeloid / erythroid	ENCSR098PTC	ENCLB185ALN	ENCBS107WLD	ENCFF464YOJ AG	3830 LN26445A DS26444	4A DS24044A	Hematopoietic Progenitor	Blood	Primary	Stem Cells	Mesoderm CD34+ T0, Day 0 control	Adult	25Y M		RO 02366 0		Biosample protocol	Experiment protocol	FC-121-1	80 4.42	351000	0 PBS+A	2014-02-28	240620831	0.43 1	126773 126521
AL PGP1_IPSC P	rimitive / embryonic					3908 LN26455A DS26410 3967 LN26496A DS26455			Adipose Germ	Primary Lines	Stem Cells iPSC	Mesoderm Adipocytes derived from AF-MSC cells  Primitive Induced pluripotent cells	Fetal Neonatal	м		1			Experiment protocol  Experiment protocol		120 8		0 PBS+A 0 PBS+A	2014-02-28 2014-03-03	353507808 332435333	0.5948 2 0.4274 2	249431 248824 224908 223953
bipolar neuron	,	ENCSR626RVD	ENCLB133NKD	ENCBS374AAA	ENCFF693QXF AG	3972 LN26591A DS26986	5A DS26980A	Nervous	Brain	Lines	IPSC	Ectoderm Derived from iPSC	Adult	М		0		Biosample protocol	Experiment protocol	FC-121-	11.6	52 525000	0 PBS+A	2014-03-20	303669146		189323 188606
bipolar_neuron PC9 C	Cancer / epithelial	ENCSR940NLN	ENCLB625GCM	ENCBS480XRH	ENCFF762KVZ AG	3909 LN26594A DS26980 3917 LN26744A DS27166	5A DS27163A	Nervous Respiratory	Brain Lung	Lines	IPSC Cancer	Ectoderm Derived from iPSC Endoderm Human non-small cell lung Adenocarcinoma wit		M M		1 0		Biosample protocol		FC-121-	7.82 10	267000	0 PBS+A 0 PBS+A	2014-03-20 2014-04-08	248603227 308725639	0.4598 1 0.5168 1	178102 177469 173735 173039
PC9		ENCSR940NLN	ENCLB078JFN	ENCBS761VSF	ENCFF146FUP AG	3903 LN26745A DS27163	3A DS27166A	Respiratory	Lung	Cancer	Cancer	Endoderm Human non-small cell lung Adenocarcinoma wit	th Adult	M		1		Biosample protocol	Experiment protocol		20	267000	0 PBS+A	2014-04-08	82195937	0.6029	110252 110082
inn_1S Heart	Cardiac	ENCSR804RSI	ENCLB423WYN	ENCBS913ULP	ENCFF847HHN AG	3938 LN26812E DS23853	3E	Hematopoietic Lymphoid Cardiovascular Cardiac	Blood Heart	Cancer Primary	Cancer Primary	Mesoderm human immunoglobulin A lambda myeloma Mesoderm fHeart	Adult Fetal	42Y F A 80D F	Arr-Am	H25386 1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	90 16.7	7 441000	0 A+Sucrose	2013-06-20	261065647 316257688	0.4884 1	129935 129507 174437 173697
Retina N	leural	ENCSR820ICX	ENCLB1510HK	ENCBS941TEO	ENCFF762IOK AG	3880 LN26813E DS23339	9E	Nervous	Eye	Primary	Primary	Ectoderm Retina	Fetal	89D F		1		Biosample protocol	Experiment protocol	FC-121-i Sucrose	90 8.4	576000	0 A+Sucrose	2013-01-30	303516746		148672 147779
Kidney 0 ACHN R	rgan devel. / renal tenal / cancer	ENCSR257BGZ	ENCLB237XJJ	ENCBS897ZFQ	ENCFF644YLA AG	3941 LN26814E DS23873 3885 LN26820A DS24471	1A DS24547A		Kidney	Primary Cancer	Primary Cancer	Mesoderm Human adherent renal cell adenocarcinoma	Fetal Adult	80D F 22Y M		H25386 1		Biosample protocol	Experiment protocol  Experiment protocol	FC-121-; Sucrose	60 6.39 20	9 498000 300000	0 A+Sucrose 0 Buffer A	2013-06-20 2014-04-22	245532664 255416060	0.5014 1 0.4612 1	189521 188732 142051 141732
NCI_H226		ENCSR265TEK	ENCLB438KFJ	ENCBS328RVB	ENCFF461HPL AG	3951 LN26826A DS21935 3925 LN26836A DS27648	5A DS21975C	Epithelial	Pleura	Cancer	Cancer	Mesoderm Lung mesothelioma (metastatic squamous cell- Mesoderm B cell non-hodokin lymphoma	c Adult	U M		1		Biosample protocol	Experiment protocol		21.4		0 PBS+A 0 PBS+A	2014-04-21	257802049	0.5523 2 0.4912 9	203458 203113
Karpas_422 Karpas_422		ENCSR019JDO	ENCLB613MEH	ENCBS530UDH	ENCFF558JEY AG	3959 LN26838A DS27641	1A DS27648A	Hematopoietic Lymphoid	Blood	Cancer	Cancer	Mesoderm B cell non-hodgkin lymphoma  Mesoderm B cell non-hodgkin lymphoma	Adult	73Y F		0	1		Experiment protocol		20		0 PBS+A 0 PBS+A	2014-04-22	235638902 472708075		94715 94317 218631 217248
A673 Doi Ly 7		ENCSR346JWH	ENCLB729MKU	ENCBS790NPQ	ENCFF552YRO AG	3906 LN26852A DS27667 3961 LN26856A DS27687	7A DS27751A	Musculoskeletal	Bone Blood	Cancer	Cancer	Mesoderm Ewing's Sarcoma	Child	15Y F		1		Biosample protocol		FC-121-	20	776000	0 PBS+A 0 PBS+A	2014-04-23	351731877	0.3983 1 0.3231 8	181185 180642 89546 89128
A673		ENCSR346JWH	ENCLB408KJJ	ENCBS304EKV	ENCFF614ITV AG	3907 LN26874A DS27751	1A DS27667A	Musculoskeletal	Bone	Cancer	Cancer	Mesoderm B-cell Non-Hodgkin lymphoma Mesoderm Ewing's Sarcoma	Child	15Y F		0	1	Biosample protocol		FC-121-	20	648000	0 PBS+A	2014-04-23	315855944 147942246		89546 89128 121620 121282
fKidney	Organ devel. / renal	ENCSR097BWW	ENCLB896SWH	ENCBS191BKL	ENCFF391NDI AG	5524 LN26921A DS24709 3819 LN26937A DS26693	BA.	Renal	Kidney	Primary	Primary	Mesoderm Kidney	Fetal	59D F		H25566 0		Biosample protocol	Experiment protocol	FC-121- Sucrose	60 17.8		0 A+Sucrose	2013-10-16	480655419	0.5335 2	278540 277682
enal_cell_carcinonR fHeart	cenal / cancer Cardiac	ENCSR664PKM	ENCLB434QXK	ENCBS910QFW	ENCFF796OYX AG	3958 LN26948A DS24812	2A	Renal Cardiovascular Cardiac	Kidney	Cancer	Cancer	Mesoderm renal_cell_carcinoma, primary culture  Mesoderm Heart	Adult	81Y F 59D U		HIM13 0 H25615 1		Biosample protocol  Biosample protocol	Experiment protocol  Experiment protocol		100 30 5.89	9 560000	A+Sucrose	2014-02-27	394620796 492718541	0.6081 2 0.3958 2	261926 261532 200817 199314
Heart 0	Cardiac	ENCSR664PKM	ENCLB417ZPE	ENCBS953MIB	ENCFF571JDP AG	3939 LN26949A DS24799	9A	Cardiovascular Cardiac	Heart	Primary	Primary	Mesoderm Heart	Fetal	76D F		H25614 0		Biosample protocol	Experiment protocol	FC-121-i Sucrose	5		0 A+Sucrose	2013-10-15	299057153	0.4393 1	168167 167474
renal_cell_carcinon R	tenal / cancer tenal / cancer	ENCSR337IRF ENCSR785BDQ	ENCLB955BJP	ENCBS482LEL ENCBS117LCZ	ENCFF088CCJ AG	5993 LN26972B DS26692 5994 LN26974 DS26685	2s DS26693A 5	Renal	Kidney	Cancer Primary	Cancer	Mesoderm renal_cell_carcinoma, primary culture  Mesoderm Giomerullar visceral epithelial cells	Adult Child	81Y F 3Y M		HIM13 1		Biosample protocol	Experiment protocol  Experiment protocol	Sucrose	80 31 100 72			2014-02-27	52988782 257372032	0.6081 8 0.4679 1	89787 89732 167258 167067
nodocytes B			ENCLB532ZRI	ENCBS144CBA	ENCFF853SSO AG	3944 LN27029A DS24886 3929 LN27272A DS28617	5A	Nervous	Spinal Cord	Primary	Primary	Ectoderm Spinal Cord	Fetal	72D M		H25636 1		Biosample protocol	Experiment protocol		5		0 A+Sucrose	2014-05-22	131338095		49925 49635
podocytes R fSpinal_cord		Extended						INCIVOUS	Brain	Primary	Primary	Ectoderm Brain_Mid_Frontal_Gyrus	Adult	/8Y M		1				FC-121-	20		0 A+Sucrose	2014-06-02	163892438	0.3164 4	40876 45743
fSpinal_cord Brain_Mid_Frontal_ NCI_H226			ENCLB013BNK	ENCBS986NWY	ENCFF493JKO AG	3952 LN27452C DS21975	5C DS21935A	Epithelial	Pleura	Cancer	Cancer		c Adult	U M		. 0			Experiment protocol		20		00 PBS+A	2014-06-26	355017749		165689 165452
fSpinal_cord Brain_Mid_Frontal NCI_H226 Oci_Ly_7 L	ymphoid	ENCSR265TEK ENCSR489NAM	ENCLB013BNK ENCLB753TXB	ENCBS986NWY ENCBS141AMI	ENCFF493JKO AG ENCFF045RSA AG	3952 LN27452C DS21975 3962 LN28035C DS29219	5C DS21935A 9C DS27687A	Hematopoietic Lymphoid	Blood	Cancer	Cancer	Mesoderm B-cell Non-Hodgkin lymphoma	Adult	U M 48Y M		1		Biosample protocol	Experiment protocol	FC-121-	3.36	720000	0 PBS+A	2014-06-23	355017749 366265521	0.5932 1	165689 165452 128302 127883
fSpinal_cord Brain_Mid_Frontal NCI_H226 Oci_Ly_7 L	ymphold Hacental / trophoblas Hacental / trophoblas	ENCSR265TEK ENCSR489NAM ENCSR121ZSL ENCSR593LTJ	ENCLB013BNK ENCLB753TXB ENCLB873PCM ENCLB699ZAP	ENCBS986NWY ENCBS141AMI ENCBS627LRI ENCBS626CAG	ENCFF493JKO AG ENCFF045RSA AG ENCFF337XVR AG ENCFF188CAW AG	3952 LN27452C DS21975	5C DS21935A 9C DS27687A 7A DS35778S 2A DS31397A	Hematopoletic Lymphoid Fetal Life Support Fetal Life Support					Adult Adult Fetal Fetal	U M 48Y M 21.5W		1 1		Biosample protocol		FC-121-1 FC-121-1 FC-121-1	20 3.36 4 4.3	720000 720000 500000			355017749 366265521 666187813 268406385 367747603		

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SER BERT	1000 Ballin	CERT	acc lints	CC Blow	CC File	-Willia bed."	ARTUS LED SEEDS SEED SEEDS	System	Cultisystem	organ.	TAGE BUTTO	aledogic b	agen by agentific	S.Condin S	می	net rem	and and the	Anique Co. 15	and in Table and	- EQUITIE	Brey L. Brey C.	THEFOUR	Trategral Co. Strategraph	Ibrary St.	Sende us	acc spu	7 BY JDIOSEL	, AF
blast 8	Placental / trophoblas ENC	SR593LTJ I	ENCLB171WJX	ENCBS994UWD	ENCFF257AIT	AG3817	LN28443A DS31397A DS30582A	Fetal Life Supp	ort	Placenta	Primary	Primary	Endoderm Trophoblast	Fetal	17.1W	9 4	V	1	Biosample protocol	Experiment protocol	FC-121-	5.28	990000 Buffer A	2014-09-24	493300113	0.5416	310235	309
_cells_C5							LN28530A DS31642A LN28558C DS25027C DS25129C	Hematopoietic		Blood Prostate	Primary	Primary Cancer	Mesoderm Dendritic cells	Adult	62Y	M Cauc	C51 G4C 05/	1		Experiment protocol		1.62	240000 PBS+A 2730000 Ruffer A	2014-10-08	398482739 553691059		161361	
26							LN28562C DS25027C DS25129C		Myeloid	Blood	Cancer	Cancer	Endoderm Human prostate adenocarcinoma (grade 4)  Mesoderm Human plasmacytoma (myeloma) from periphe	Adult r Adult	61Y	M Cauc		1 1	Biosample protocol	Experiment protocol  Experiment protocol	FC-121- min-elute	0	7200000 PBS+A	2014-06-30	360602253	0.5731	146013	
							LN28669A DS32096A DS32047A			Germ	Lines	ESC	Ectoderm H-9 differentiated to neuronal cells	Embryonic				1	Biosample protocol	Experiment protocol	FC-121- min-elute	0	3100000	2014-10-21	419664099	0.5631	182012	
							LN28703C DS25113C DS25119A LN28707C DS23849C	Digestive Nervous		Colon Brain	Cancer	Cancer	Endoderm colorectal adenocarcinoma Ectoderm (Brain	Adult	44Y 80D	F	H25386	0		Experiment protocol  Experiment protocol	FC-121- min-elute 8	10 206 20	18000000 PBS+A 7650000 A+Sucrose	2013-11-15	312003049 321102532	0.4837 0.5119	156057 170676	- 10
-							LN28708C DS24147C DS24154A			Kidney	Cancer	Cancer	Mesoderm Adharent human kidney rhabdold tumor	Child	3Y	M	H25386	0		Experiment protocol		20	15100000 PBS+A	2013-05-24	274476347	0.5119	88779	88
							LN28762A DS32047A DS32096A			Germ	Lines	ESC	Ectoderm H-9 differentiated to neuronal cells	Embryonic				0			FC-121- min-elute		2760000 PBS+A	2014-10-24	391806263	0.3639	137001	
oms des							LN28844A DS32566A DS37250A LN29143A DS32057A	Cardiovascular	Cardiac Musck	e Heart Liver	Lines	ESC	Mesoderm RUES2 differentiated to cardiomyocytes Endoderm H-9 differentiated to hepatocytes	Embryonic				1		Experiment protocol  Experiment protocol		2.6 too low	1750000 PBS+A 1090000 PBS+A	2014-11-03	218981792	0.504	137422	
ıbular							LN29654 DS27824 DS26689	Renal		Kidney	Cancer	Cancer	Mesoderm HIM13 PCT		81Y	F	HIM13	1	Biosample protocol			IDO IOW	1030000 PB3*A	2015-01-12	264950502	0.3273	192205	
								Digestive		Colon	Cancer	Cancer	Endoderm	Adult	44Y	F		0		Experiment protocol	FC-121-	20	820000 PBS+A	2015-01-27	265384108	0.4076	119826	1
							LN29819A DS34628A LN29827A DS34574A DS37513A	Digestive		Colon	Cancer	Cancer	Endoderm metastatic tumour in the left supraclavicular reg Endoderm human colon epithelial cells	Adult Adult	56Y	м		1	Biosample protocol	Experiment protocol	FC-121-	10	2200000 PBS+A 1250000 PBS+A	2015-01-27	226045288	0.3762	103111	
_G2M							LN30023A DS34890A	Embryonic		Germ	Lines	ESC	Primitive FUCCI AzH.G2M FUCCI cells (cell cycle) H9 de	Embryonic	53Y	м		1	Biosample protocol	Experiment protocol		20	840000 PBS+A	2015-01-27	305263488	0.3779	153673	
s							LN30025A DS34885A DS39293A			Germ	Lines	ESC	Primitive FUCCI AzL Sphase FUCCI cells (cell cycle) H9			м		1		Experiment protocol			420000 PBS+A	2015-02-04	268141838	0.3153	120504	
_early I							LN30027A DS34872A LN30029A DS34866A	Embryonic Embryonic		Germ	Lines	ESC	Primitive FUCCI cells DN.early G1 FUCC (cell cycle) H9 Primitive FUCCI cells KO2 late G1 FUC (ell cycle) H9 de			M		1		Experiment protocol  Experiment protocol			530000 PBS+A 818000 PBS+A	2015-02-04	251853460	0.3489	121699 102588	10
cells C19							LN30433A DS35823A	Hematopoietic		Blood	Primary	Primary	Mesoderm Dendritic cells	Adult	551		C190.G4C.wt	0			FC-121-2001 DNA TruSi	eq v2-1	570000 PBS+A	2015-02-04	260906972		41531	40
							LN30439A DS35787A DS30557A			Placenta	Primary	Primary	Endoderm Trophoblast		39W			1	Biosample protocol	Experiment protocol	FC-121-	5	598000 Buffer A	2015-03-14	358833287		221752	
last 1							LN30931S DS35782S LN30990 DS37199 DS27192	Fetal Life Supp	ort	Placenta Kidney	Primary	Primary	Endoderm Trophoblast Mesoderm Renal cell adenocarcinoma		23.6W 58Y	м		1		Experiment protocol  Experiment protocol		20	810000 Buffer A	2015-04-20	224023762 366404463	0.5758	167400	
II_carcinon	Renal / cancer ENC	SR337IRF	ENCLB852HRP	ENCBS592CHX	ENCFF905FPN	AG6998	LN31351 DS37974 DS37973	Renal		Kidney	Cancer	Cancer	Mesoderm renal cell carcinoma  Mesoderm renal cell carcinoma		58Y 62Y	M		1		Experiment protocol	Jeff's ssl 8			2015-05-22	57945070	0.5441	96846	9
ell_carcinon							LN31352 DS37973 DS37974	Renal		Kidney	Primary	Primary	Mesoderm renal cell carcinoma	Adult			CI:HIM15 RC			Experiment protocol	Jeff's ssl 1	00		2015-05-22	269778980	0.5441	205134	
ubular ubular							LN31354 DS37971 DS37969 LN31356 DS37969 DS37971	Renal		Kidney	Primary	Primary	Mesoderm kidney tubular Mesoderm kidney tubular	Adult	62Y	м	CI:HIM15 RC	1		Experiment protocol  Experiment protocol		40		2015-05-22	353650265 53738679	0.4796	240971 79427	7
							LN31423S DS35778S DS30587A	Fetal Life Supp	ort	Placenta	Primary	Primary	Endoderm Trophoblast		21.3W	M		0		Experiment protocol		40	510000 Buffer A	2015-03-22	176599134	0.5038	84161	8
a <mark>s</mark>							LN31427S DS37102S	Fetal Life Supp		Placenta	Primary	Primary	Endoderm fPlacenta	Fetal	105D	М	H26543	0			FC-121-1001 DNA TruSe	eq - Set A	551000 A+Sucrose	2015-05-13	297724694	0.3354	101921	
cms							LN31456A DS37250A DS32566A LN31482A DS37455A	Cardiovascular		e Heart Heart	Lines	ESC Primary	Mesoderm h.RuES2 differentiated to cardiomyocytes  Mesoderm Right Ventricle	Embryonic Fetal	101D		H26573	0		Experiment protocol  Experiment protocol	FC-121- SSIb-JV	2	1620000 PBS+A 622000 A+Sucrose	2015-05-18	165475790 241963493	0.3389	78450 134204	7:
ntricle tricle							LN31482A DS37456A LN31484A DS37450A	Cardiovascular		Heart	Primary	Primary	Mesoderm heart Left Ventricle	Fetal	101D	U	H26573	1		Experiment protocol			740000 A+Sucrose	2015-05-18	204804750		93774	
							LN31492A DS37401A	Cardiovascular		Heart	Primary	Primary	Mesoderm fHeart_d98_F	Fetal	98D	F	H26513	1	Biosample protocol	Experiment protocol			1910000 A+Sucrose	2015-05-18	148733546	0.3076	97738	
							LN31529A DS37473A LN31530A DS37460A	Cardiovascular Cardiovascular		Heart Heart	Primary	Primary Primary	Mesoderm Left Atrium	Fetal Fetal	116D 101D	F	H26583 H26573	1		Experiment protocol  Experiment protocol		3	2400000 A+Sucrose 529000 A+Sucrose	2015-06-01	218768197	0.43	141622	
ım (							LN31530A DS37460A	Renal	Cardiac	Kidney	Cancer	Cancer	Mesoderm Renal cell adenocarcinoma	Adult	101D 58Y	M	H205/3	0	Biosample protocol	Experiment protocol	SSID-JV	3	529000 A+Sucrose	2015-06-01	217929608	0.3496	122687	
ubular	Renal / cancer ENC						LN31651 DS26689 DS27824	Renal		Kidney	Primary	Primary	Mesoderm kidney tubular cells	Adult	81Y	F	HIM13	0		Experiment protocol				2015-06-19	239089105	0.393	221085	2
tricle (							LN31860S DS37292S LN32257A DS37546A DS38592A	Cardiovascular	Cardiac	Heart Colon	Primary	Primary	Mesoderm h.f.heart.Left.Ventricle	Fetal	136D 50Y	F M	H26564	1		Experiment protocol		1.9	2320000 A+Sucrose 990000 PRS+A	2015-07-01	203158085	0.3587	134029	
,							LN32257A DS37546A DS38592A LN32260A DS37513A DS34574A			Colon	Cancer	Cancer	Endoderm Human colon agenccarcinoma  Endoderm human colon epithelial cells	Adult	507	м		1		Experiment protocol  Experiment protocol			1040000 PBS+A	2015-07-02	258895967	0.3164	169628	
							LN32272 DS39386	Renal		Kidney	Primary	Primary	Mesoderm Kidney Glomeruli	Adult	62Y	м		1		Experiment protocol		10		2015-07-28	325270186	0.3501	195799	
0							LN32479A DS38592A DS37546A LN32481A DS38587A DS34646A	Digestive		Colon	Cancer	Cancer	Endoderm Human colon adenocarcinoma  Endoderm colorectal adenocarcinoma	Adult	50Y 44Y	М		1		Experiment protocol	SSIb-JV SSIb-IV	1.01	2220000 PBS+A 2500000 PBS+A	2015-07-28	202574104	0.3862	147393 196932	
							LN32481A DS38587A DS34646A LN32934A DS38790A	Fetal Life Supp	ort	Colon	Primary	Primary	Endoderm colorectal adenocarcinoma  Endoderm Placenta	Adult Fetal	53D	U	H26672	0		Experiment protocol  Experiment protocol		- 1	2600000 PBS+A 1224000 A+Sucrose	2015-07-28	238144762 301200438	0.4953	196932	
s	Primitive / embryonic ENC:	SR017OZH I	ENCLB094YXR	ENCBS616QKE	ENCFF245FDV	AG4006	LN33151A DS39293A DS34885A	Embryonic		Germ	Lines	ESC	Primitive FUCCI AzL Sphase FUCCI cells (cell cycle) H9		53Y	м		0			SSIb-JV7Q		700000 Buffer A	2015-08-23	176764370	0.3028	113928	1
							LN33179A DS39509A DS39502A LN33181A DS39502A DS39509A			Blood	Cancer	Cancer	Mesoderm haploid Parental - near-haploid cell line derived Mesoderm haploid Parental - near-haploid cell line derived	Adult	40Y	м		1		Experiment protocol		5.25	2700000 Buffer A 2700000 Buffer A	2015-08-21	265405265	0.3404 0.322	121367	
							LN33181A DS39502A DS39509A LN33421 DS40362 DS44414		Myeloid	Blood	Cancer	Cancer	Mesoderm napioid Parental - near-napioid cell line derived Endoderm colon cell carninoma	Adult	40Y	м		0		Experiment protocol		4.98 in	2700000 Burner A	2015-08-23	206244928	0.322	118035	
ibroblasts	ENC	SR856NXV I	ENCLB584PEG	ENCBS385GBH	ENCFF409ZKB	AG6217	LN34648A DS39481A	Connective		Heart	Primary	Primary	Mesoderm heart fibroblasts	Fetal	94D	F		1	Biosample protocol	Experiment protocol	SSIb-JV	3.336	900000 PBS+A	2016-01-06	199930072	0.555	200548	
tricle 8							LN35453 DS44414 DS40362	Digestive Cardiovascular		Colon	Cancer	Cancer	Endoderm colon cell carcinoma  Mesoderm Heart Left Ventricle	Adult	103D	F	H26856	1		Experiment protocol	Jeff's sst 6	10	200000 A+Sucrose	2016-03-07	253965382 191669306	0.3997	143657	
tricle							LN35747A DS44708A LN37566 DS7768 DS7764	Cardiovascular Hepatic	Cardiac	Heart	Primary	Primary	Mesoderm Heart Left Ventricle Endoderm hepatocellular carcinoma	Fetal Child	103D 15Y	M	H26856	0	Biosample protocol Biosample protocol	Experiment protocol  Experiment protocol	SSIb-JV	1.9515	2760000 A+Sucrose	2016-04-01	191669306	0.3734	130087 34030	33
10							LN38595 DS7784 DS7748	Hematopoietic	Lymphoid	Blood	Lines	Immortalized	Mesoderm Lymphoblastoid	Adult	41Y	F		0		Experiment protocol					16631134	0.4982	28420	28
							LN38596 DS7842	Hematopoietic		Blood	Primary	Primary	Mesoderm T2 helper	Adult	25Y?	F?	Wilson01	1 1	Biosample protocol	Experiment protocol			2300000 Ruffer A		16364285	0.5453	29762	25
							LN40338H DS52908H DS56591B LN42591A DS56256A DS56257A	Hematopoietic Renal	Erythroid	Blood Kidney	Cancer	Cancer	Mesoderm Myeloid Mesoderm kidney epithelial	Adult	53Y	F M		1 1		Experiment protocol	Thruplex Thruplex	3 2.446	2300000 Buffer A 75000	2016-12-06	348386258 39757400	0.6275	171611 56745	16
	ENC	SR634YVQ	ENCLB722RNZ	ENCBS188NWH	ENCFF622TAD	AG7007	LN42592A DS56257A DS56256A	Renal		Kidney	Lines	Immortalized	Mesoderm kidney epithelial	Adult		м		1	Biosample protocol	Experiment protocol	Thruplex	2.093	75000	2016-12-06	44495072	0.6312	74758	74
c i							LN42987C DS39598C DS55945A			Germ	Lines	ESC	Primitive H9 embryonic stem cells	Embryonic		м		0		Experiment protocol	Thruplex	2.394	1680000 Buffer A	2016-12-16	246128324	0.4648	140483	10
c							LN42989C DS39603C DS55923A LN43413A DS55945A DS39598C			Germ	Lines	ESC ESC	Endoderm Definitive Endoderm #2., differentiated from H9 Primitive H9 embryonic stem cells	Embryonic		M		1		Experiment protocol	Thruplex Thruplex	3.316	792000 Buffer A 1470000	2016-12-16	235453299	0.4903	139262	
	ENC	SR360XIS	ENCLB182LEM	ENCBS752TEN	ENCFF923EPI	AG6943	LN43504A DS55951A DS39609C	Nervous		Germ	Lines	ESC	Ectoderm Ecto Neural Progenitor Cells, differentiated from	n Embryonic	53Y	M		1		Experiment protocol	Thruplex	1.58	78000	2017-01-05	285234920	0.3837	136721	1
							LN43606A DS55923A DS39603C			Germ	Lines	ESC	Endoderm Definitive Endoderm #2., differentiated from H9			м		1		Experiment protocol		1.1	540000	2017-01-05	457497776	0.5445	312848	
							LN43610A DS55938A DS39591C LN44778B DS38801B	Endocrine Musculoskeleta	al	Pancreas Bone	Lines Primary	ESC Primary	Endoderm Islet positive cells, mesoderm lineage, differentia Mesoderm Limbs		53Y 53D	M U	H26672	1	Biosample protocol  Biosample protocol	Experiment protocol	Thruplex Thruplex	1.9	920000 A+Sucrose	2017-01-05	400782003 248234335	0.481	304415 121697	
a	Placental / trophoblas	SR499IFY I	ENCLB522QPG	ENCBS428ZCZ	ENCFF529MRR	AG7433	LN44779B DS39148B	Fetal Life Supp		Placenta	Primary	Primary	Endoderm Placenta	Fetal	53D	U	H26691	1		Experiment protocol	Thruplex	1.1	1140000 A+Sucrose		229554104	0.5536	145196	1-
m_left							LN44780B DS39408B	Musculoskeleta		Bone	Primary	Primary	Mesoderm bone arm left	Fetal	81D	м		0	manage and a second	Experiment protocol	Thruplex	0.53	200000 A+Sucrose		198205332	0.4059	113852	
n_right _left							LN44781B DS39410B LN44782A DS39413A	Musculoskeleta Musculoskeleta		Bone Bone	Primary Primary	Primary Primary	Mesoderm bone arm right  Mesoderm bone leg left	Fetal Fetal	81D 81D	M	H26710 H26710	1	Biosample protocol	Experiment protocol  Experiment protocol	Thruplex Thruplex	0.64	405000 A+Sucrose 435000 A+Sucrose		209930536 193009319	0.4939	121344	1
g_right	Musculoskeletal ENC:	SR449HOQ I	ENCLB086WVI	ENCBS161DMX	ENCFF917PAV	AG7437	LN44783A DS39417A	Musculoskeleta		Bone	Primary	Primary	Mesoderm bone leg right	Fetal	81D	M	H26710	1		Experiment protocol	Thruplex	0.82	570000 A+Sucrose		244081902	0.6082	141501	1
							LN45031A DS23388A	Renal		Kidney	Primary	Primary	Mesoderm fKidney	Fetal	59D	F	H25200	0		Experiment protocol	Thruplex	1.2	5130000 Sucrose HLE		270578146	0.5523	158472	
							LN45032A DS24714A LN45033A DS24801A	Renal Renal		Kidney	Primary Primary	Primary Primary	Mesoderm Kidney Mesoderm Kidney	Fetal Fetal	76D 76D	M	H25574 H25614	1		Experiment protocol  Experiment protocol	Thruplex Thruplex	2.8	6530000 A+Sucrose 3510000 A+Sucrose	2017-02-17	201422642	0.7026	146343	
							LN45034A DS24806A	Respiratory		Lung	Primary	Primary	Endoderm Lung	Fetal	76D	F	H25614	1	Biosample protocol	Experiment protocol	Thruplex	1.4	2070000 A+Sucrose	2017-02-17	258909360		138795	
							LN45035A DS24814A	Renal		Kidney	Primary	Primary	Mesoderm Kidney	Fetal	59D	U	H25615	1		Experiment protocol		2.186	3060000 A+Sucrose	2017-02-17	237562849		142982	
al_cord emur							LN45036A DS24820A LN45038B DS36206B	Fetal Life Supp Musculoskelet		Umbilical Cord Bone	Primary	Primary Primary	Endoderm Umbilical_cord  Mesoderm b f Rope femur	Fetal	59D 98D	U	H25615 H26513	1	Biosample protocol Biosample protocol	Experiment protocol	Thruplex Thruplex	0.9	1260000 A+Sucrose 1050000 A+Sucrose	2017-02-17	195057523 252066174		113517	
remur							LN45038B DS36206B LN45070C DS37372C	Hepatic		Bone Liver	Primary	Primary	Mesoderm h.f.Bone.femur Endoderm h.f.liver	Fetal	98D 113D	F	H26513 H26549	1		Experiment protocol	Thruplex Thruplex	4.48	1050000 A+Sucrose 2140000 A+Sucrose	2017-02-17	252066174 190541422	0.5823	146918 76639	7
ta	ENC	SR552RKI I	ENCLB423VBC	ENCBS565KNL	ENCFF084UVH	AG8805	LN45072C DS37386C	Fetal Life Supp		Placenta	Primary	Primary	Endoderm placenta	Fetal	102D	U	H26550	1	Biosample protocol	Experiment protocol		1.325	1050000 A+Sucrose		203699532	0.3869	107611	1
ta f		CDSS2VII I	ENCL B711777	ENCBS723HLT	ENCFF593AWN	AG7450	LN45076C DS37716C	Fetal Life Supp	ort	Placenta	Primary	Primary	Endoderm Placenta	Fetal	56D	U	H26598	1	Biosample protocol	Experiment protocol	Thruplex	0.972	1380000 A+Sucrose		206456483	0.4356	115898	11